

C. DAVIS.

NUT LOCK.

APPLICATION FILED MAY 23, 1907.

Fig. 1.

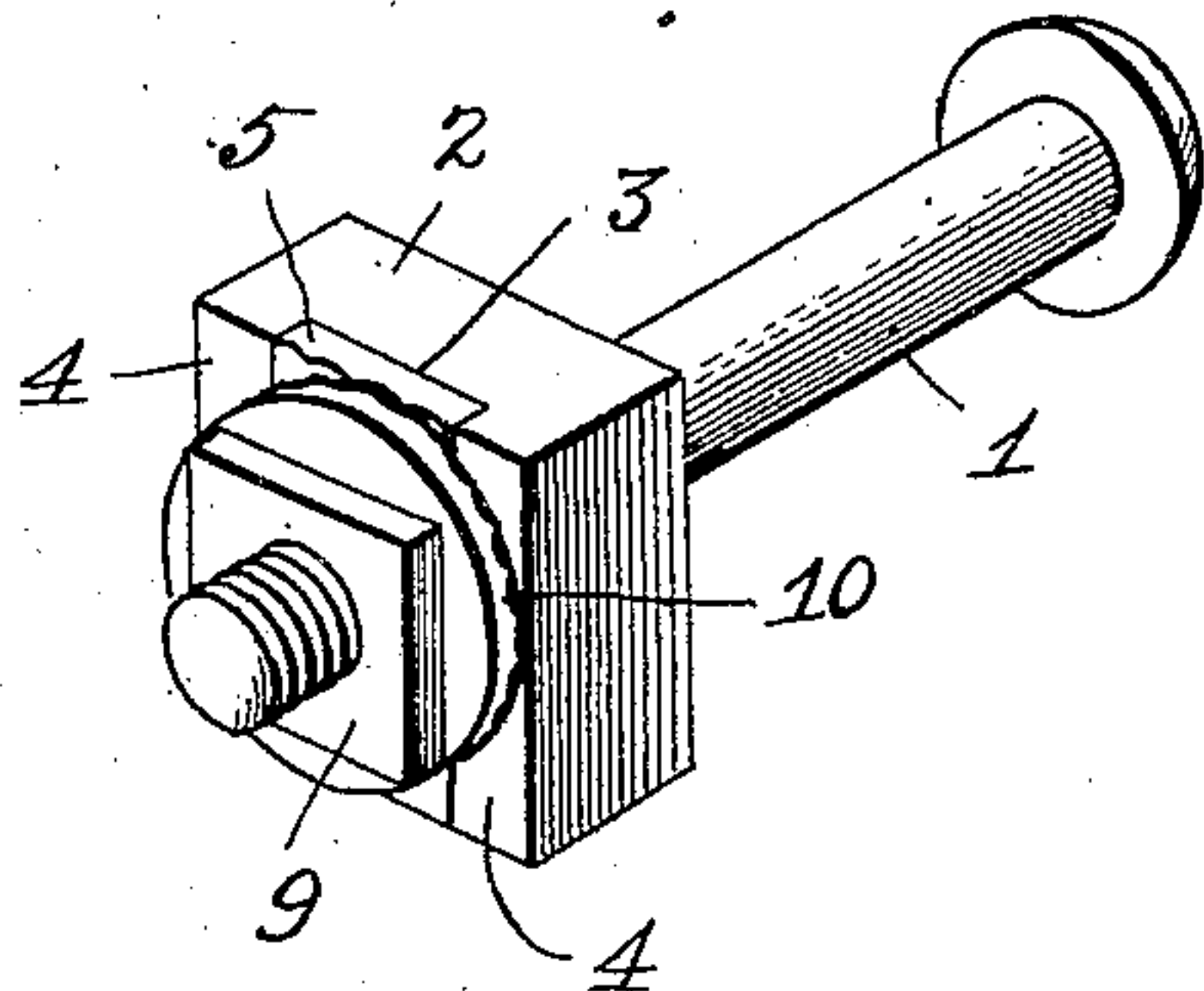


Fig. 2.

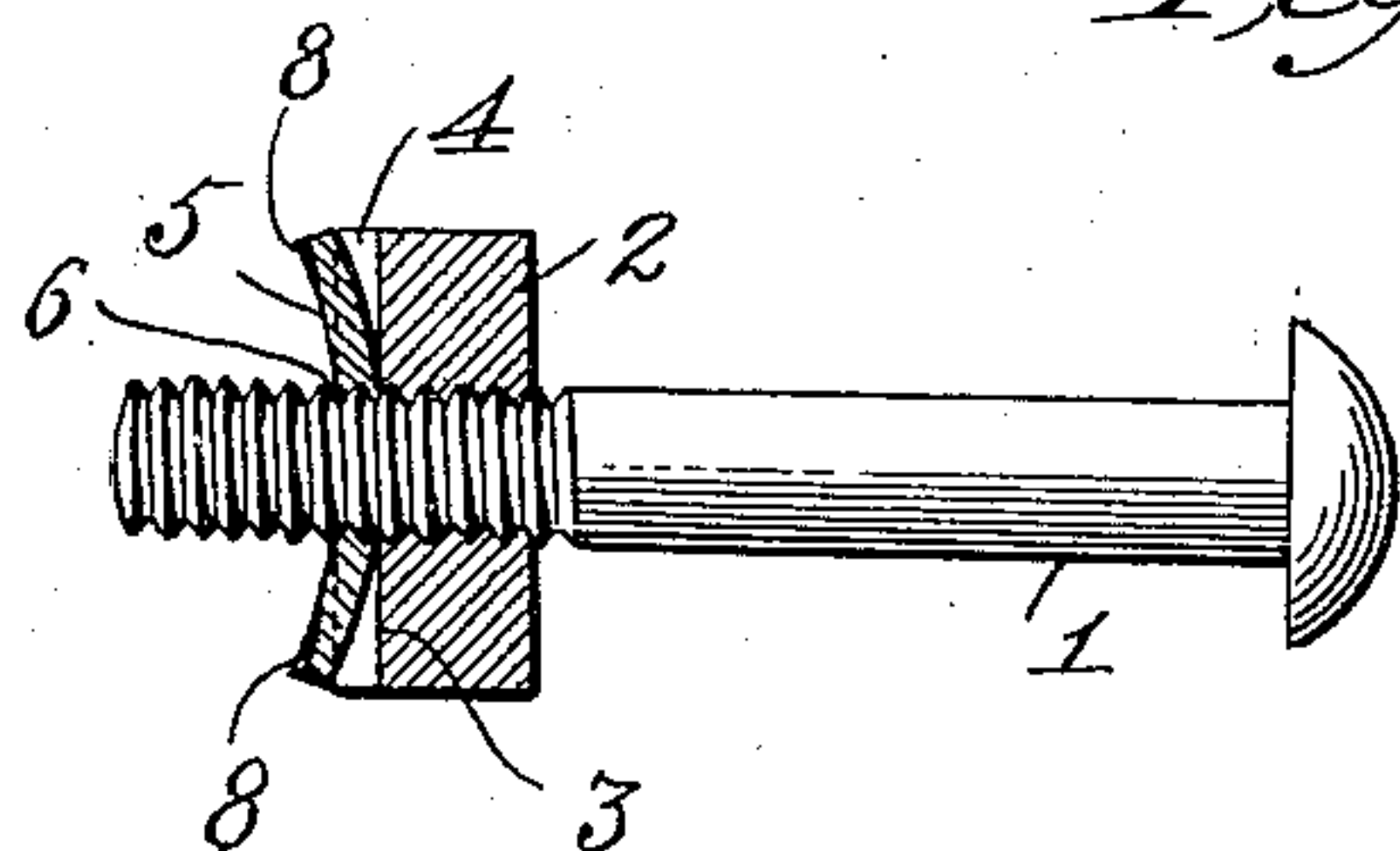


Fig. 3.

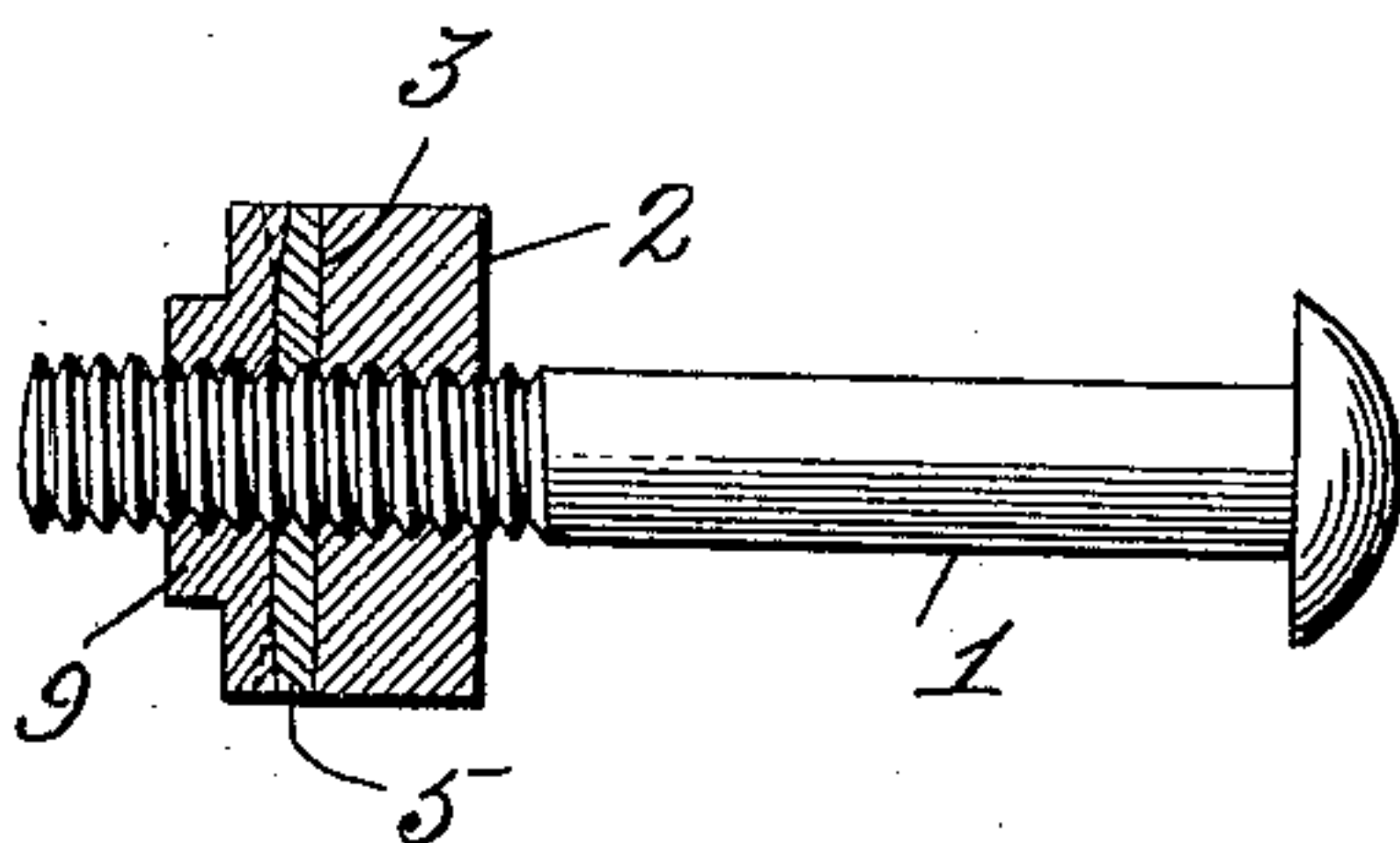


Fig. 4.

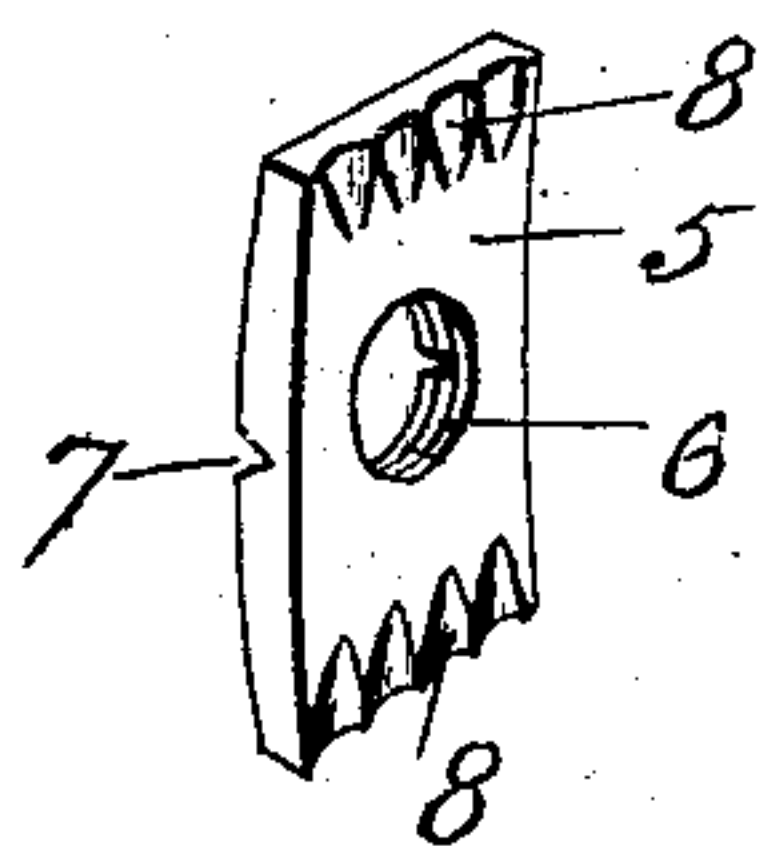
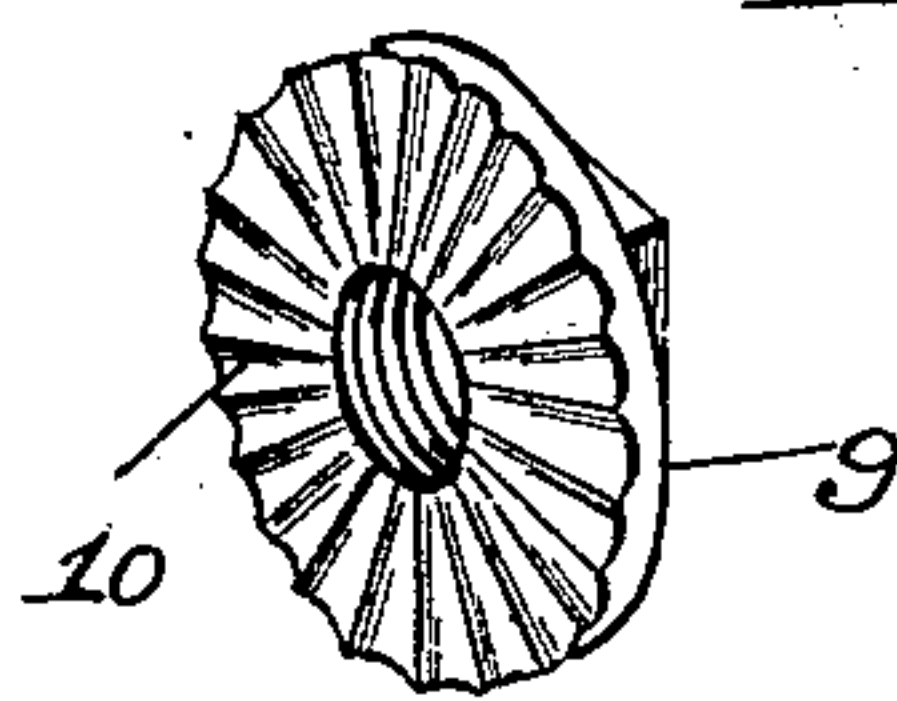


Fig. 5.



Witnesses

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UNITED STATES PATENT OFFICE.

CALVIN DAVIS, OF CASEYVILLE, KENTUCKY, ASSIGNOR OF THREE-SIXTEENTHS TO FLEMING F. MESSENGER, THREE-SIXTEENTHS TO JOHN BRICKA, THREE-SIXTEENTHS TO BENJAMIN R. HIERONYMUS, AND THREE-SIXTEENTHS TO WILLIAM E. AMES, ALL OF CASEYVILLE, KENTUCKY.

NUT-LOCK.

No. 862,615.

Specification of Letters Patent.

Patented Aug. 6, 1907.

Application filed May 23, 1907. Serial No. 375,325.

To all whom it may concern:

Be it known that I, CALVIN DAVIS, a citizen of the United States, and a resident of Caseyville, in the county of Union and State of Kentucky, have invented
5 certain new and useful Improvements in Nut-Locks, of which the following is a full, clear, and exact description, such as will enable those skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawing, forming part
10 of this specification.

The invention relates to improvements in nut-locks of that description in which a holding-plate is interposed between the main nut and a jam-nut to secure the members together.

15 It has for its object the provision of means for securing the members against accidental displacement which will permit the removal of the nut from the bolt without injury to any of the parts and which at the same time will securely hold the parts together when adjusted for that purpose.
20

It consists in the novel construction, combination and arrangement of parts, such as will be hereinafter fully described, pointed out in the appended claims and illustrated in the accompanying drawings.

25 In the drawings, in which similar reference characters designate corresponding parts, Figure 1 is a perspective view of a device embodying the invention. Fig. 2 is a longitudinal sectional view with the jam-nut removed. Fig. 3 is a similar view with all the parts
30 assembled. Fig. 4 is a detail perspective view showing the holding-plate. Fig. 5 is a similar view showing the jam-nut.

The bolt 1 is of the usual formation and on its screw-threaded end is turned the main nut 2. In the outer
35 face of the main nut is the recess 3 extending transversely across the same between the parallel ribs 4 at the opposite edges of the nut. The recess 3 forms a seat for the holding-plate 5 which accurately fits the same. The plate is formed of spring metal and it is
40 provided with a central threaded aperture 6 to receive the end of the bolt. It is bowed longitudinally and is placed in the recess 3 with its convex face contacting with the bottom of the recess. Extending transversely across the convex face of the holding-plate coincident
45 with the aperture 6 is the groove 7 at right angles to the longitudinal curve of the plate. The ends of the holding-plate on its concave face are provided with serrations 8. The plate is somewhat thicker than the depth of the recess 3 so that the serrated ends 8 project
50 outside the ribs 4 when the plate is seated in the recess. On the end of the bolt outside of the holding-plate is the

jam-nut 9 having the radial serrations 10 on its under side to engage the serrations 8 of the holding-plate.

In assembling the parts the holding-plate 5 is seated in the recess 3 of the main nut 2 and both the plate and
55 nut are turned together onto the bolt to the desired distance. The jam-nut 9 is then turned onto the end of the bolt and is forced down upon the holding-plate. The latter bends along the line of the groove 7 and the plate is flattened. This distorts the aperture 6 so that
60 its edges bind upon the bolt and thereby clamps the plate to the bolt. As the holding-plate is seated in the recess 3 the nut 2 is held against turning also. The serrations 8 of the holding-plate engage the serrations 10
65 of the jam-nut and the latter is thereby held against accidental turning. When it is desired to remove the main nut, the jam-nut is removed by any suitable tool. This frees the holding-plate and the latter resumes its normal shape and the distortion of the aperture 6 is removed. When this happens the main nut and the
70 holding-plate can be turned off the bolt.

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

1. In a nut-lock, the bolt, the main nut turned onto said bolt, parallel ribs on the edges of the outer face of said
75 nut forming a recess extending transversely across the face of the nut, a longitudinally bowed holding-plate seated in said recess normally projecting above said ribs having a threaded aperture to receive the bolt, and a jam-nut turned onto the end of the bolt against said holding-plate
80 to flatten the latter to distort its aperture.

2. In a nut-lock, the bolt, the main nut turned onto said bolt provided with a transverse recess, a longitudinally bowed holding-plate seated in said recess provided with a
85 threaded aperture to receive the bolt and having a groove in its convex face at right-angles to the longitudinal curvature of the plate and coincident with said aperture, and a jam-nut turned onto the bolt against the holding-plate to bend the latter along the line of said groove to distort said aperture.
90

3. In a nut-lock, the bolt, the main nut turned onto said bolt provided with a transverse recess, a longitudinally bowed holding-plate seated in said aperture having serrated ends and provided with a threaded aperture to receive the bolt and having a groove in its convex face at
95 right-angles to the longitudinal curvature of the plate and coincident with said aperture, and a jam-nut turned onto the bolt against the holding-plate to bend the latter along the line of said groove to distort said aperture and provided with serrations to engage with the serrations of the
100 holding-plate.

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

CALVIN DAVIS.

Witnesses:

JOHN W. WALTERS,
THOMAS RICKETTS.