

(No Model.)

P. B. KENYON.
NUT LOCK.

No. 603,819.

Patented May 10, 1898.

Fig. 1.

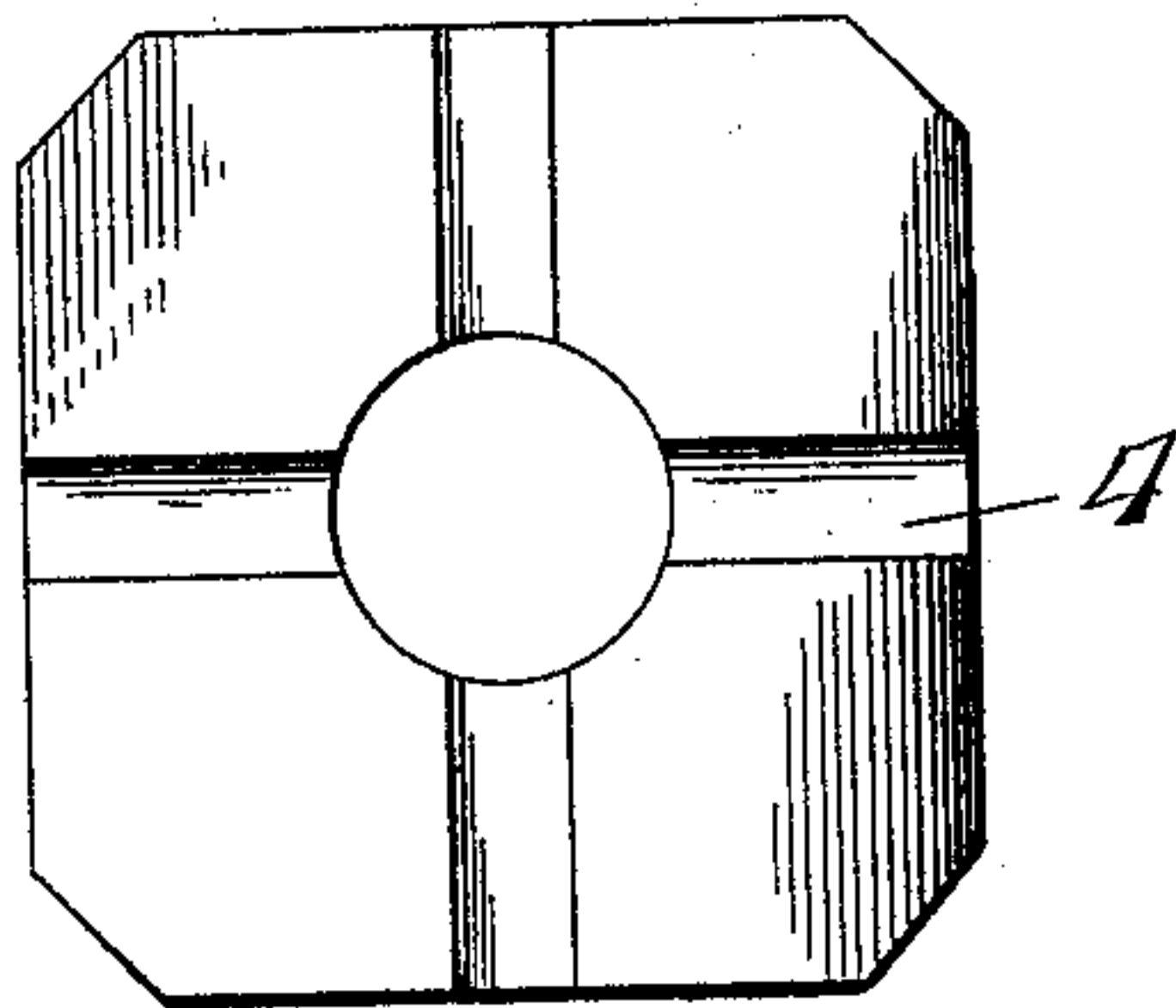


Fig. 2.

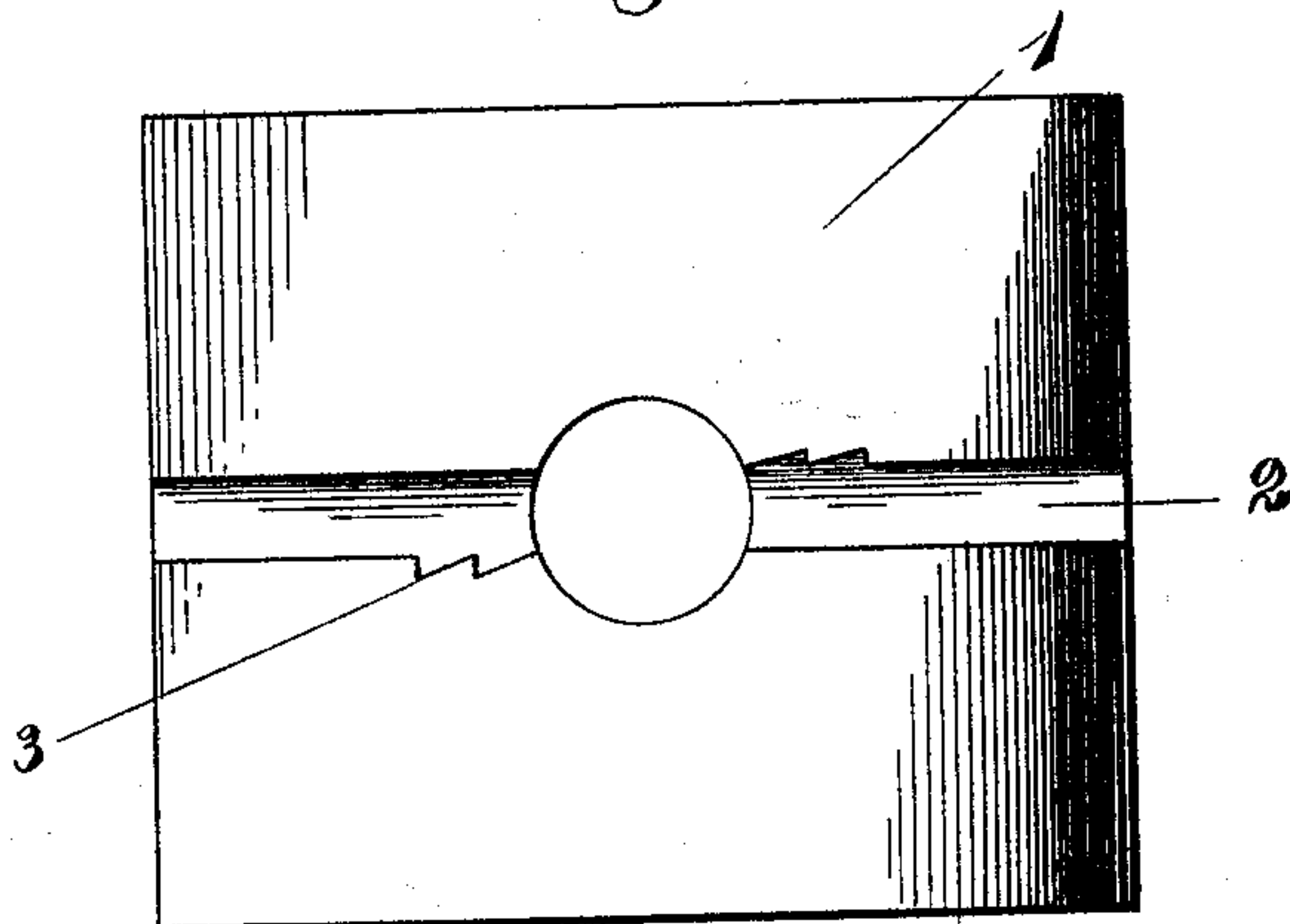


Fig. 3.

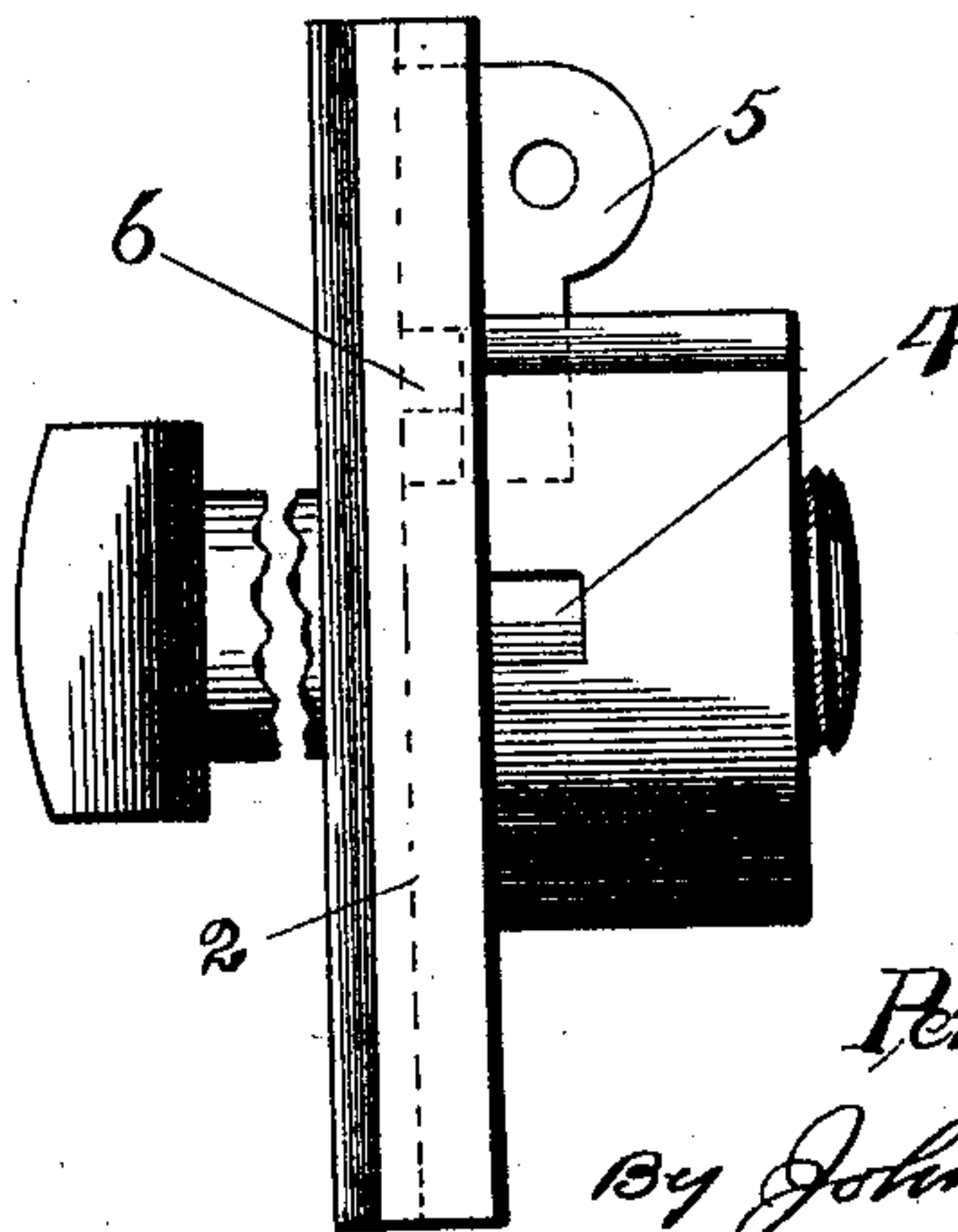
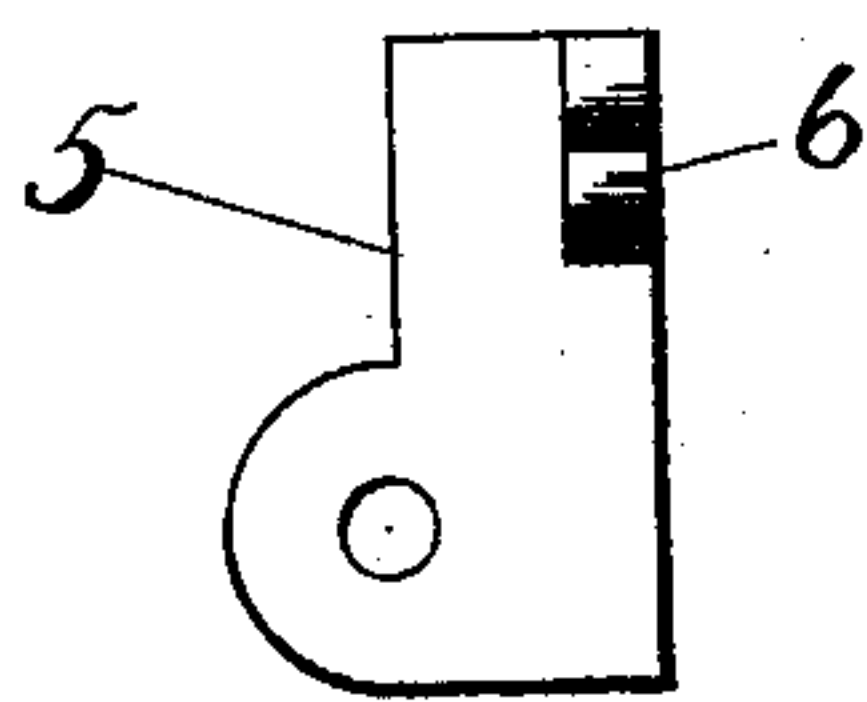


Fig. 4.

Witnesses
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UNITED STATES PATENT OFFICE.

PERRY B. KENYON, OF WESTERLY, RHODE ISLAND.

NUT-LOCK.

SPECIFICATION forming part of Letters Patent No. 603,819, dated May 10, 1898.

Application filed June 3, 1897. Serial No. 639,305. (No model.)

To all whom it may concern:

Be it known that I, PERRY B. KENYON, of Westerly, in the county of Washington and State of Rhode Island, have invented certain
5 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
10 same.

This invention relates to improvements in nut-locks, and has for its object to provide a device of this character especially adapted for railway and other uses.

15 My device is simple and of effective operation and requires no special bolt upon which the nut is to be locked.

In the drawings herewith, forming a part of this specification, Figure 1 is a plan view
20 of the inner surface of the nut to be used in conjunction with my improved means for locking the same. Fig. 2 is a plan view of the plate or rail upon or against which the inner face of the nut rests. Fig. 3 is a plan
25 view of the key adapted to effect the locking between the nut and the outer surface of the plate upon which it rests. Fig. 4 is a side view of the nut in conjunction with the plate, the locking-key being shown by means of dotted lines.
30

In the construction of my improved nut-locking device I provide in the outer surface of the plate 1, upon which the inner face of the nut bears, a longitudinal slot or channel
35 2, which is projected centrally across the aperture provided for the passage of the bolt through said plate. No preparation of the bolt used in connection with the nut is required. In the side walls of said slot 2, upon
40 opposite sides of the bolt-aperture, I provide a series of ratchet-teeth 3, formed as shown in the drawings herewith.

Crossing the face of the nut, centrally thereof and at right angles therewith, I form slots
45 4, leading from the sides of the nut into the central bore thereof, said slots being adapted in size to register with the slot 2 on the surface of the plate 1. I next provide a key 5, consisting of a longitudinal plate provided
50 with the ratchet-teeth 6 at its inner and lower end, said ratchet-teeth being only in height

the depth of the slot 2, cut in the plate 1, so that the nut will bear on the plate 1. The key may be provided at its outward end with the upwardly-projecting portion to facilitate
55 the handling of the same. The thickness of the key at the inner end, including the outwardly-projecting ratchet-teeth, is about the width of the slot cut in the plate 1, so that the same can be readily moved in the slot
60 without binding.

The operation of my improved locking device is as follows: The nut having been rotated upon the screw-threaded end of the bolt until it reaches the surface of the plate 1 is
65 tightened thereon until one of the slots 4 in the nut registers with the slot 2 in the plate 1. The key 5 is now pushed into the slot, so that its inner end, carrying the ratchet-teeth, will be next to the bolt. This can readily be
70 done by hand, owing to the key being a loose fit in the slot. The nut is now turned back, which turning back will move the key against the side of the slot 2 having the ratchet-cuts
75 3 and cause the ratchet-teeth on the key to enter the ratchet-cuts 3 on plate 1, thereby locking the nut against further rotation and the key against removal, and all that is necessary to remove a bolt at any time is to tighten
80 the nut up sufficiently, so that the slot in the nut and the slot in the plate register, when the key can readily be pulled out and the nut removed from the bolt without destroying any part of the device.

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

1. In a nut-lock, the combination with a slotted plate, said slot intersecting the bolt-aperture therein, ratchet-teeth provided in the
90 side walls of said slot, a nut having in the inner face slots directed toward the center thereof, a key adapted to enter and occupy the recess formed by the slot in said nut registering with the slot in said plate after the
95 backward rotation of the nut on the bolt which engages the ratchet-teeth on the key with the ratchet-teeth on the plate, thereby maintaining the engagement of said key with the plate and nut and preventing rotation of
100 the nut.

2. An improved nut-locking device having

combined therein a slotted plate, a nut having its inner surface slotted, a key adapted to enter and occupy the recess formed by the registering of the slot in the plate and one of
5 the slots in the nut, teeth formed in the slot in said plate, and ratchet-teeth upon said key which are engaged with ratchet-teeth on said plate by the backward rotation of the nut on the bolt, the whole constructed and

adapted for operation, substantially as herein set forth.

In testimony whereof I have signed this specification in the presence of two subscribing witnesses.

PERRY B. KENYON.

Witnesses:

EDWARD G. CUNDALL,
GEORGE G. WELLS.