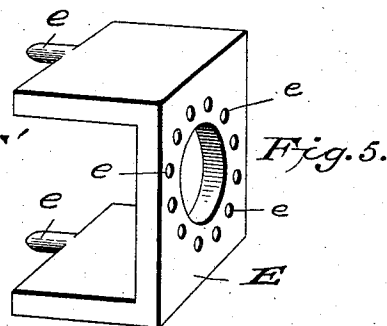
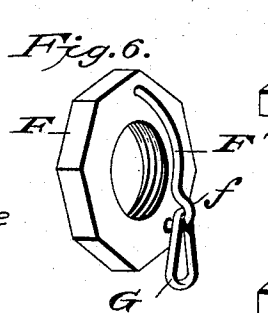
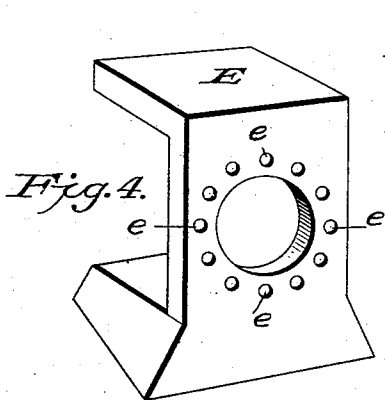
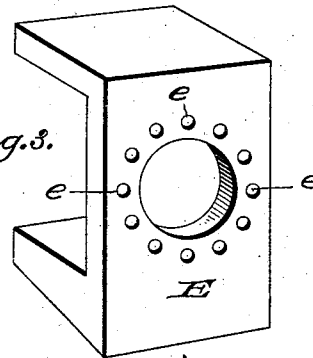
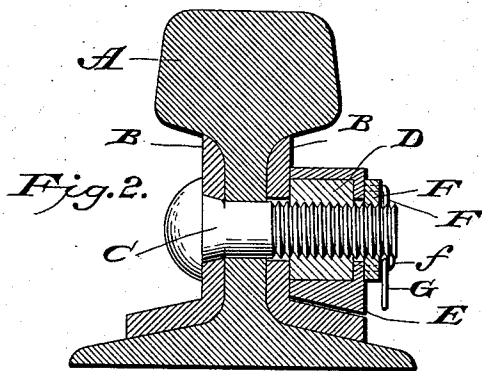
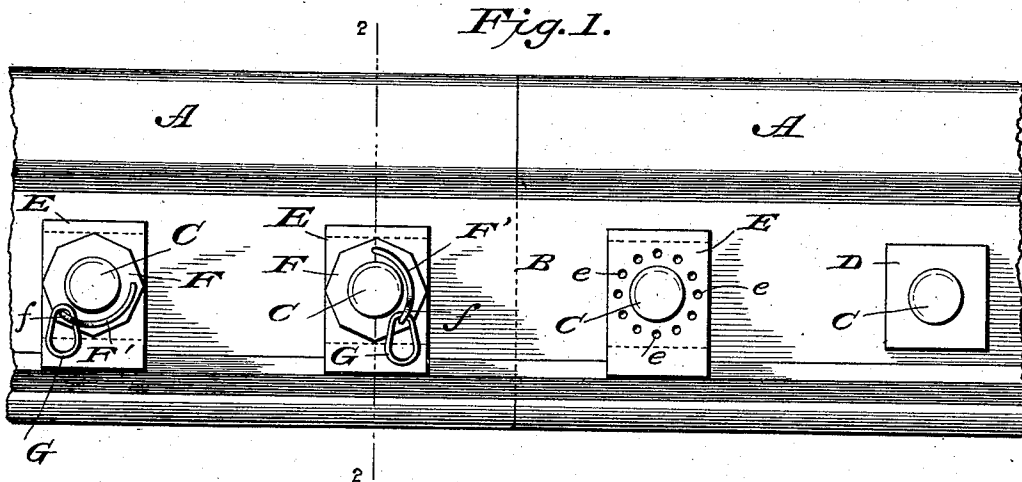


(No Model.)

J. P. VAN DERVEER.
NUT LOCK.

No. 572,460.

Patented Dec. 1, 1896.



WITNESSES
L. S. Elliott.
W. Johnson.

Joseph P. Van Derveer
INVENTOR

INVENTOR
by  Attorney

UNITED STATES PATENT OFFICE.

JOSEPH P. VAN DERVEER, OF CLANTON, ALABAMA.

NUT-LOCK.

SPECIFICATION forming part of Letters Patent No. 572,460, dated December 1, 1896.

Application filed October 1, 1896. Serial No. 607,577. (No model.)

To all whom it may concern:

Be it known that I, JOSEPH P. VAN DERVEER, a citizen of the United States of America, residing at Clanton, in the county of Chilton and State of Alabama, 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 of reference marked thereon, which form a part of this specification.

The object of this invention is to provide simple and effective means for locking a nut upon its bolt; and it consists of a covering-plate adapted to be placed over the end of the bolt to embrace the nut and engage a fixed object, said covering-plate having a concentric series of perforations or recesses employed in connection with a spring-pawl carried by a supplemental nut, all as hereinafter fully set forth, and particularly pointed out in the claims.

In the accompanying drawings, forming part of this specification, Figure 1 is a side elevation showing the application of my invention, the supplemental nut being removed from one of the bolts. Fig. 2 is a vertical sectional view on the line 2 2 of Fig. 1. Fig. 3 is a perspective view of the covering-plate. Figs. 4 and 5 are modifications of the covering-plate. Fig. 6 is a perspective view of the supplemental nut, which carries the spring-pawl.

My improved nut-lock is adapted to be applied to a variety of uses, but in the drawings I have only shown it applied in connecting railroad-rails, A A designating the rails; B, the fish-plate; C, the bolts, and D the nuts.

E designates the covering-plate, which forms a part of my improved device for locking the nut upon the bolt, said plate having an opening to receive the end of the bolt and inwardly-projecting portions which embrace opposite sides of the nut, the outer face of the plate being provided with a concentric series of perforations or recesses *e*, which surround the opening therein. In Figs. 1, 2, 3, and 4 I have shown the bottom of this covering-plate inclined to bear against the inclined

surface of the fish-plate B or flange of the rail and prevent the nut and covering-plate turning upon the bolt, the lower part of the covering-plate being extended at each side in Fig. 4 to provide a base of increased width for use when the space between the bolt and flange of the fish-plate or rail is greater than usual. In Fig. 5 the inwardly-projecting members of the covering-plate are provided with spurs *e'*, which may enter perforations therefor in the surface against which the nut is pressing or be driven into a wooden object to which the bolt and nut is applied.

In order to prevent the accidental displacement or removal of the covering-plate E, a supplemental nut F is employed, which is screwed upon the projecting end of the bolt and carries a spring bar or pawl F', having a free end that passes through an aperture in said supplemental nut to engage the perforations or recesses *e* in the covering-plate. The pawl is of peculiar construction to adapt it for use in connection with a link G, which holds the free end of said pawl within the aperture of the nut until said nut has been screwed tightly upon the bolt. For this purpose the pawl or spring-bar is provided with a looped portion *f*, adjoining the end which is secured to the nut, and beyond this loop the bar is straight to bear against the surface of the nut when the free end, which is bent to pass through the aperture, engages one of the perforations or recesses *e*. In this position the link engages the loop *f*, and by forcing the link under the straight portion of the bar the free end thereof will be drawn out of the perforation or recess and permit the supplemental nut to be unscrewed. Conversely, when said supplemental nut is being screwed upon the end of the bolt the link is in this same position, and when moved into the loop *f* will allow the free end to engage one of the recesses *e* in the covering-plate, as hereinbefore mentioned.

It will be noted that the supplemental nut is comparatively thin with respect to the nut D, as the function of said supplemental nut is merely to prevent the accidental removal of the covering-plate.

From the foregoing description, in connection with the accompanying drawings, the operativeness and effectiveness of my improved

devices for locking an ordinary nut upon its bolt will be readily apparent, and it will also be apparent that the inwardly-projecting members of the covering-plate will engage any style of nut that may have more than four sides, as shown in the drawings.

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

1. In a nut-lock, the combination with an ordinary bolt and nut, of a covering-plate adapted to be placed over the bolt to embrace the nut, said covering-plate having means which engage a fixed object and a concentric series of perforations or recesses; together with a supplemental nut, and a pawl carried by said nut to engage the perforations or recesses in the covering-plate, substantially as shown and for the purpose set forth.

2. In a nut-lock, the combination with an ordinary bolt and nut, of a covering-plate which engages the nut and a fixed object, and a supplemental nut in engagement with the bolt, one of the parts having a series of perforations or recesses and the other a pawl which engages therewith, substantially as shown and described.

3. In a nut-lock, the combination with an

ordinary bolt and nut, of a covering-plate E which engages the nut and a fixed object and is provided with a series of perforations or recesses, a supplemental nut F in engagement with the bolt, a pawl or spring-bar F' secured to the supplemental nut and provided with a loop *f* and adjoining straight portion; together with a link G in engagement with the spring bar or pawl, substantially as shown and for the purpose set forth.

4. In a nut-lock, the combination with an ordinary bolt and nut, of a covering-plate constructed to present inwardly-projecting members, a base which contacts with a stationary object, an opening for the bolt, and a series of perforations or recesses surrounding said opening; together with a supplemental nut, a spring-bar secured thereto and provided with a loop and adjoining straight portion, and a link in engagement with the spring-bar, substantially as shown and for the purpose set forth.

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

JOSEPH P. VAN DERVEER.

Witnesses:

B. H. CHESNERTH,

W. I. MULLINS.