

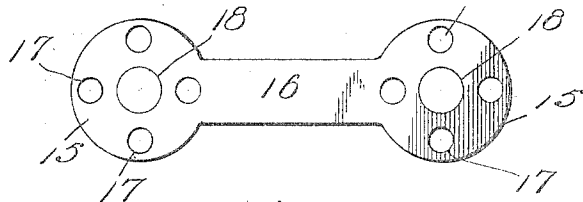
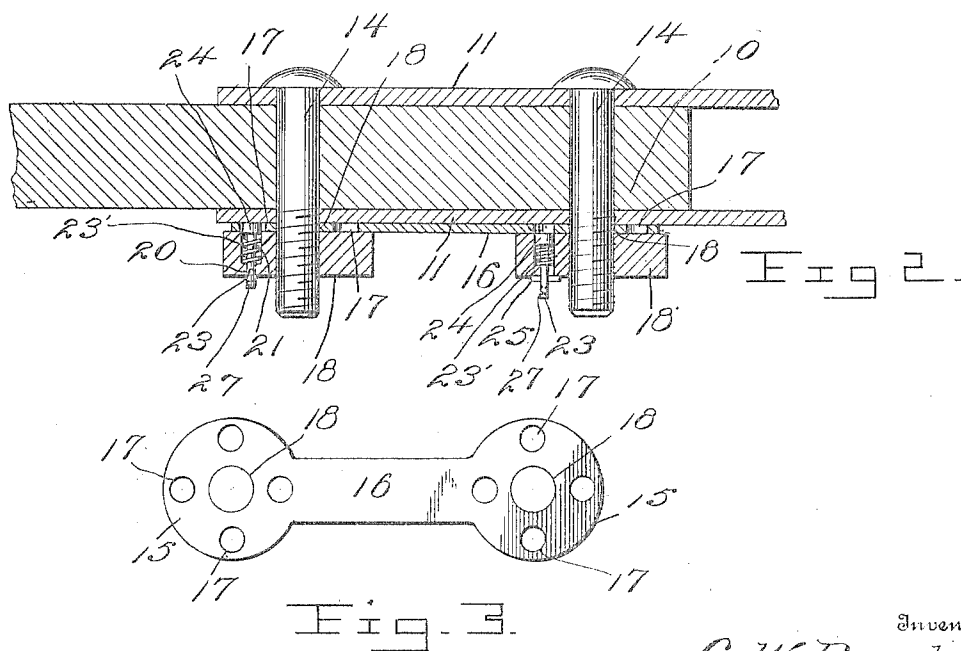
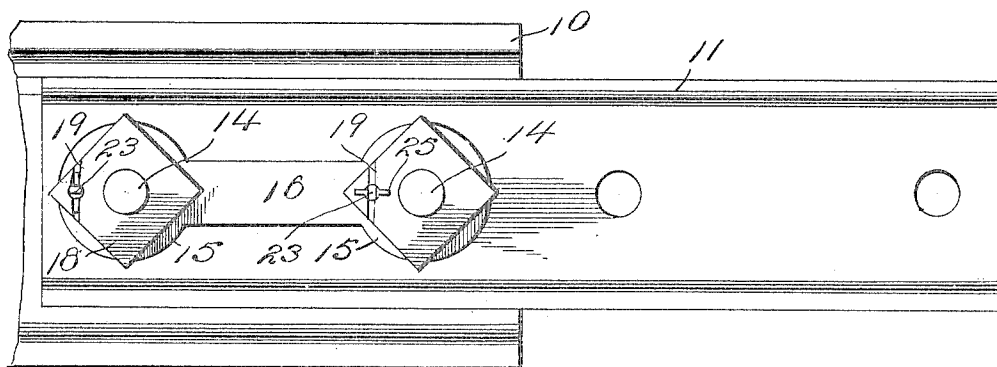
No. 804,580.

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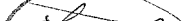
C. W. BURNHAM.

NUT LOCK.

APPLICATION FILED MAR. 21, 1905.



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UNITED STATES PATENT OFFICE.

CORNELIUS W. BURNHAM, OF PATRICK, MISSISSIPPI.

NUT-LOCK.

No. 804,580.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, CORNELIUS W. BURNHAM, a citizen of the United States, residing at Patrick, in the county of Rankin, State of Mississippi, 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.

This invention relates to nut-locks, and more particularly to the class of base-washer nut-locks, the object of the invention being to provide a cheap and simple construction that will hold positively and in which the nut may be easily and quickly locked and unlocked at different points of its rotation.

In the drawings forming a portion of this specification, and in which like numerals of reference indicate similar parts in the several views, Figure 1 is an elevation showing a portion of a railway-rail with a fish-plate having bolts and nuts equipped with the present invention. Fig. 2 is a longitudinal horizontal section through the structure shown in Fig. 1, one of the nuts being locked and the other unlocked. Fig. 3 is a plan view of the double washer employed.

Referring now to the drawings, and more particularly to Figs. 1, 2, and 3 thereof, there is shown a railroad-rail 10, against which are disposed the usual fish-plates 11, the rail and plates being perforated to receive the bolts 14. Over the threaded ends of the bolts and against the outer face of the corresponding fish-plate are disposed the end members 15 of a double washer, these end members being circular and connected by an integral bar 16, so that rotation of the double washer is prevented. In each end member of the double washer is formed an annular series of perforations 17 equidistant from the central perforation 18 of the end member and for a purpose to be presently explained. Upon each of the bolts is engaged a nut 18' of usual form, with the exception that in the outer face thereof and across one corner is formed a groove 19, the ends of which open through corresponding side faces of the nut, and from the bottom of this groove there leads a passage 20 entirely through the nut, the lower end portion of the passage being increased in diameter, as shown at 21. In the minor

portion of the passage is slidably engaged the stem 23 of a plunger having a head 24, 55 that slidably fits the major portion of the passage, the plunger being held normally and yieldably projected from the lower end of the passage by means of a helical spring 23, disposed upon the stem of the plunger and 60 resting with its ends respectively against the head of the plunger and the inner end of the major portion of the passage. When the plunger is projected, it engages one of the perforations 17 and holds the nut against rotation on the bolt. The outer end portion of the plunger is provided with a transverse pin 25, which when in the groove 19 permits of projection of the plunger from the rear face of the nut. The plunger may be drawn out- 70 wardly to move the pin out of the groove and then rotated to cause the pin to lie against the outer face of the nut, when the pin will hold the plunger out of engagement with the washer and the nut may be then rotated. 75 The outer end portion of the plunger is provided with serrations 27 on opposite faces to facilitate engagement of a pair of pliers therewith when the plunger is to be retracted.

What is claimed is—

The combination with a body having a pair of bolts engaged therethrough, of a washer comprising end members disposed over the bolts and a connecting integral bar, said end members having each an annular series of perforations, a nut engaged with each bolt, a spring-pressed plunger carried by each nut and disposed to engage a perforation in the corresponding end member of the washer, the outer face of each nut having a slot formed therein and opening through two mutually adjacent side faces of the nut, and a pin engaged transversely through each plunger and adapted to lie entirely within the corresponding slot when the plunger is engaged in a perforation of the corresponding end member of the washer and adapted at other times to lie transversely of the slot against the end face of the nut to hold the corresponding plunger retracted. 100

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

CORNELIUS W. BURNHAM.

Witnesses:

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