

No. 712,904.

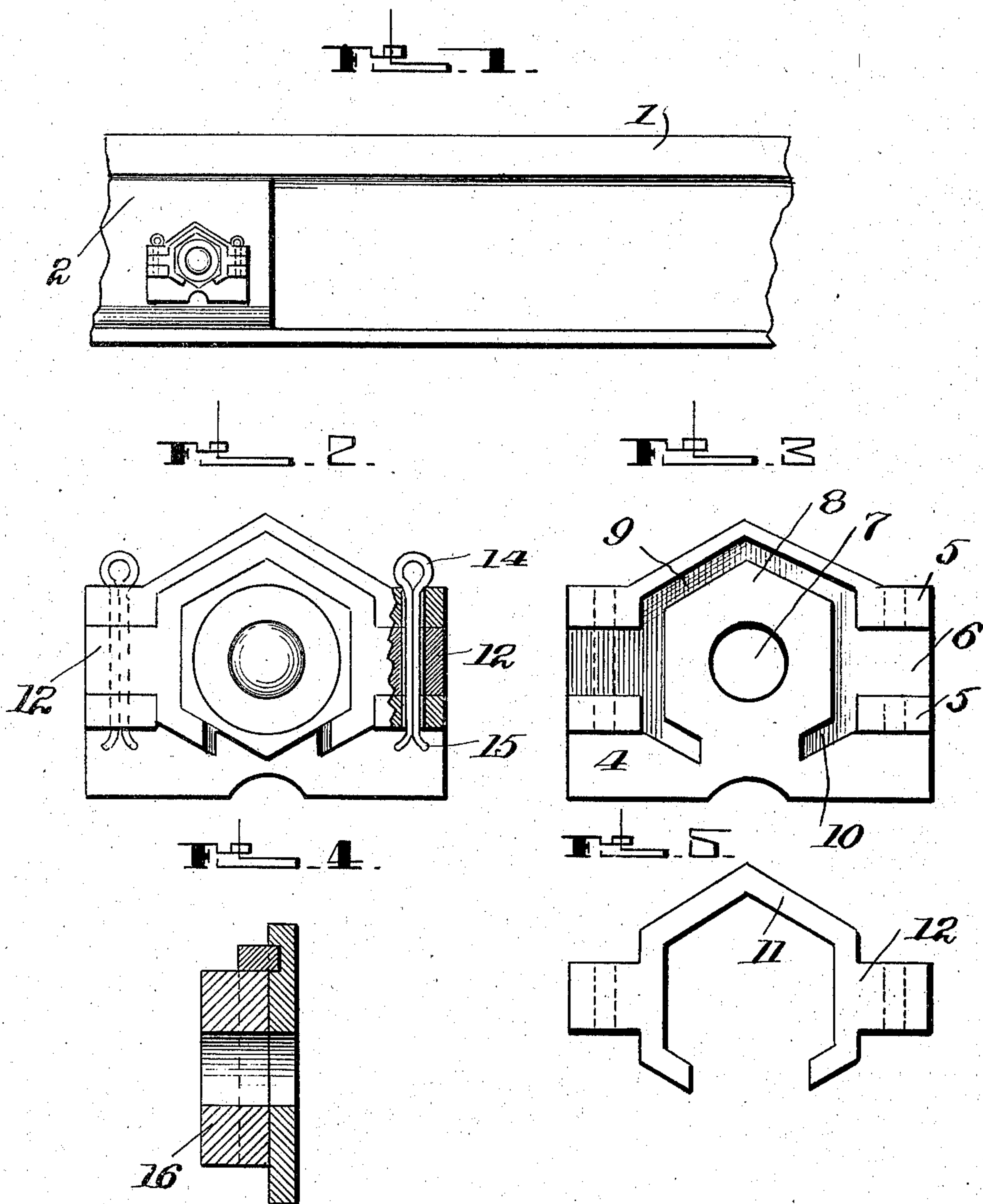
Patented Nov. 4, 1902.

M. E. BYERS.

NUT LOCK.

(Application filed July 5, 1902.)

(No Model.)



WITNESSES.

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UNITED STATES PATENT OFFICE.

MARGARET E. BYERS, OF GREENSBURG, PENNSYLVANIA.

NUT-LOCK.

SPECIFICATION forming part of Letters Patent No. 712,904, dated November 4, 1902.

Application filed July 5, 1902. Serial No. 114,426. (No model.)

To all whom it may concern:

Be it known that I, MARGARET E. BYERS, a citizen of the United States of America, residing at Greensburg, in the county of Westmoreland and State of Pennsylvania, have invented certain new and useful Improvements in Nut-Locks, of which the following is a specification, reference being had therein to the accompanying drawings.

10 This invention relates to certain new and useful improvements in nut-locks, and relates more particularly to that class employed in connection with railway, bridge, and steel constructions.

15 The invention has for its object the provision of novel means whereby a nut may be securely retained upon a bolt and prevented from turning.

20 The present invention further aims to provide a nut-lock of this character that will be extremely simple in construction, strong, durable, and comparatively inexpensive to manufacture.

25 With the above and other objects in view the invention consists in the novel combination and arrangement of parts, to be herein-after more fully described, and specifically pointed out in the claim.

30 In describing the invention in detail reference is had to the accompanying drawings, forming a part of this specification, and wherein like numerals of reference indicate like parts throughout the several views, in which—

35 Figure 1 is a front elevation of my improved nut-lock as it appears when applied to a rail and fish-plate. Fig. 2 is an enlarged front elevation partly in vertical section. Fig. 3 is a similar view of the base-plate. Fig. 4 is a vertical sectional view of Fig. 2. Fig. 5 is a front elevation of the clamping-yoke.

40 In the drawings the reference-numeral 1 represents the rails, and 2 the fish-plate. The base-plate 4 carries apertured lugs 5 5, forming a space 6 therebetween. This base-plate 4 has formed therein a central opening 7 and carries a substantially hexagonal raised portion 8, forming grooves 9 10 between said raised portion and the outer face of the base-plate. The clamping-yoke 11 carries out-

wardly-extending apertured lugs 12, the body 50 portion of said clamping-yoke being seated in the grooves 9 10, and the apertured lugs 12 are seated in the space 6 between the lugs 5. The apertures of the lugs 5 and 12 register with one another and are adapted to receive 55 fastening means, such as spring-keys 14, the ends of said keys being bent in opposite directions, as shown at 15, to securely lock the same in position. The nut 16 is embraced by the yoke 11, preventing the nut from turn- 60 ing in either direction. The lower side of the base-plate engages the base of the rail and fish-plate, and the plate is thereby prevented from turning.

It will be seen that by the herein-described 65 device the nut may be securely locked and retained in position; further, that the nut-lock may be easily removed when desired, and the device may be used a number of times.

The many other advantages obtained by 70 the use of my improved device will be readily apparent from the foregoing description, taken in connection with the accompanying drawings.

It will be noted that various changes may 75 be made in the details of construction without departing from the general spirit of my invention.

Having fully described my invention, what I claim as new, and desire to secure by Letters 80 Patent, is—

In a nut-lock, the combination of a base-plate having grooves partially surrounding a central opening formed in said base-plate, apertured lugs formed integral with said base- 85 plate, a yoke having one of its sides cut away, apertured lugs extending outwardly on each side of said yoke and seated in said grooves, and suitable fastening means extending through said apertured lugs, substantially as 90 described.

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

MARGARET E. BYERS.

Witnesses:

JNO. POPPENGGER,
M. E. POPPENGGER.