

No. 693,805.

Patented Feb. 18, 1902.

T. M. PRICE.

NUT LOCK.

(Application filed May 18, 1901.)

(No Model.)

Fig 1.

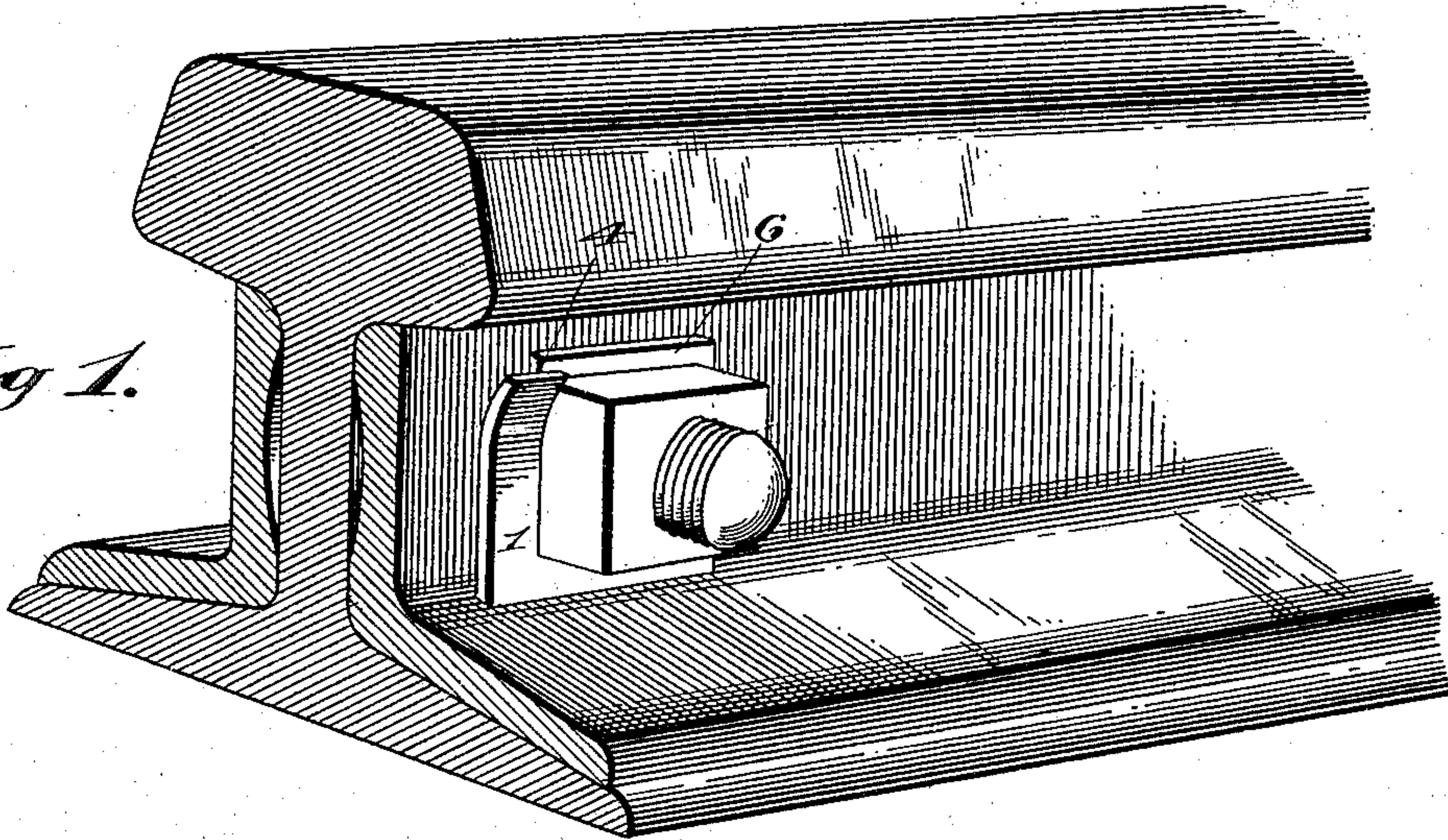


Fig 2.

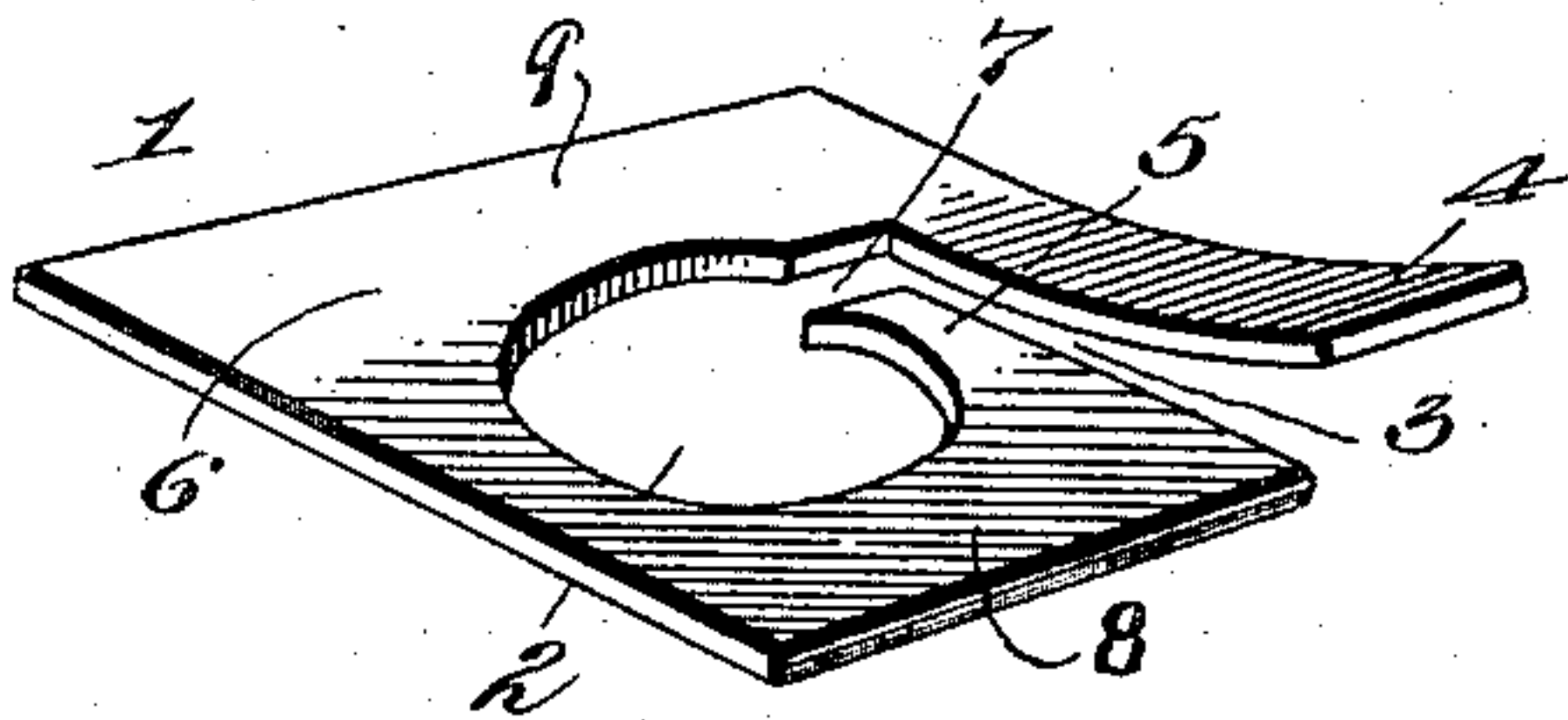


Fig 4.

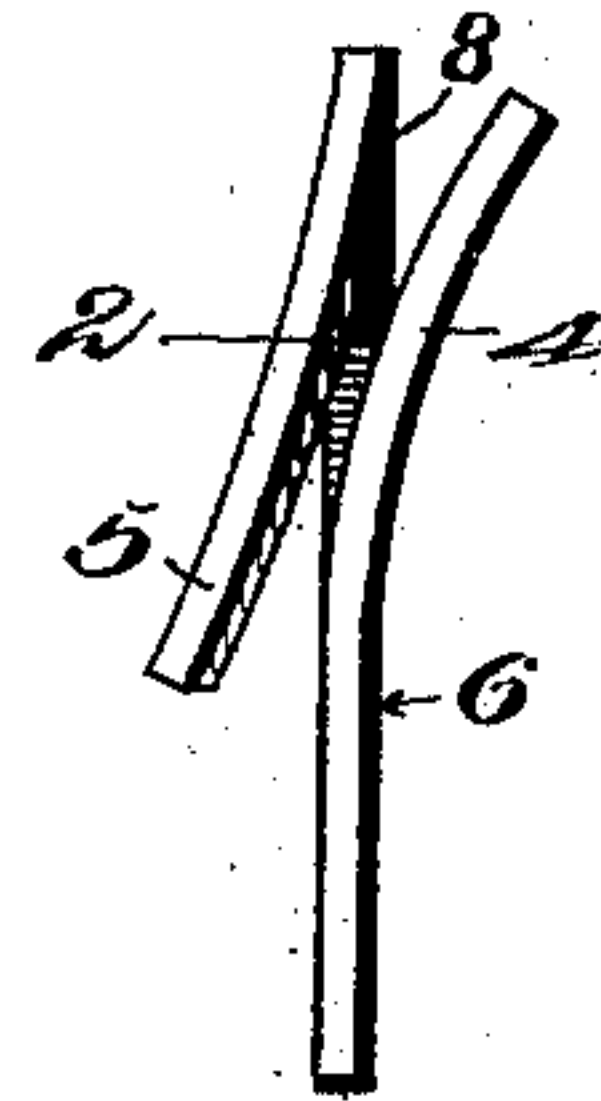
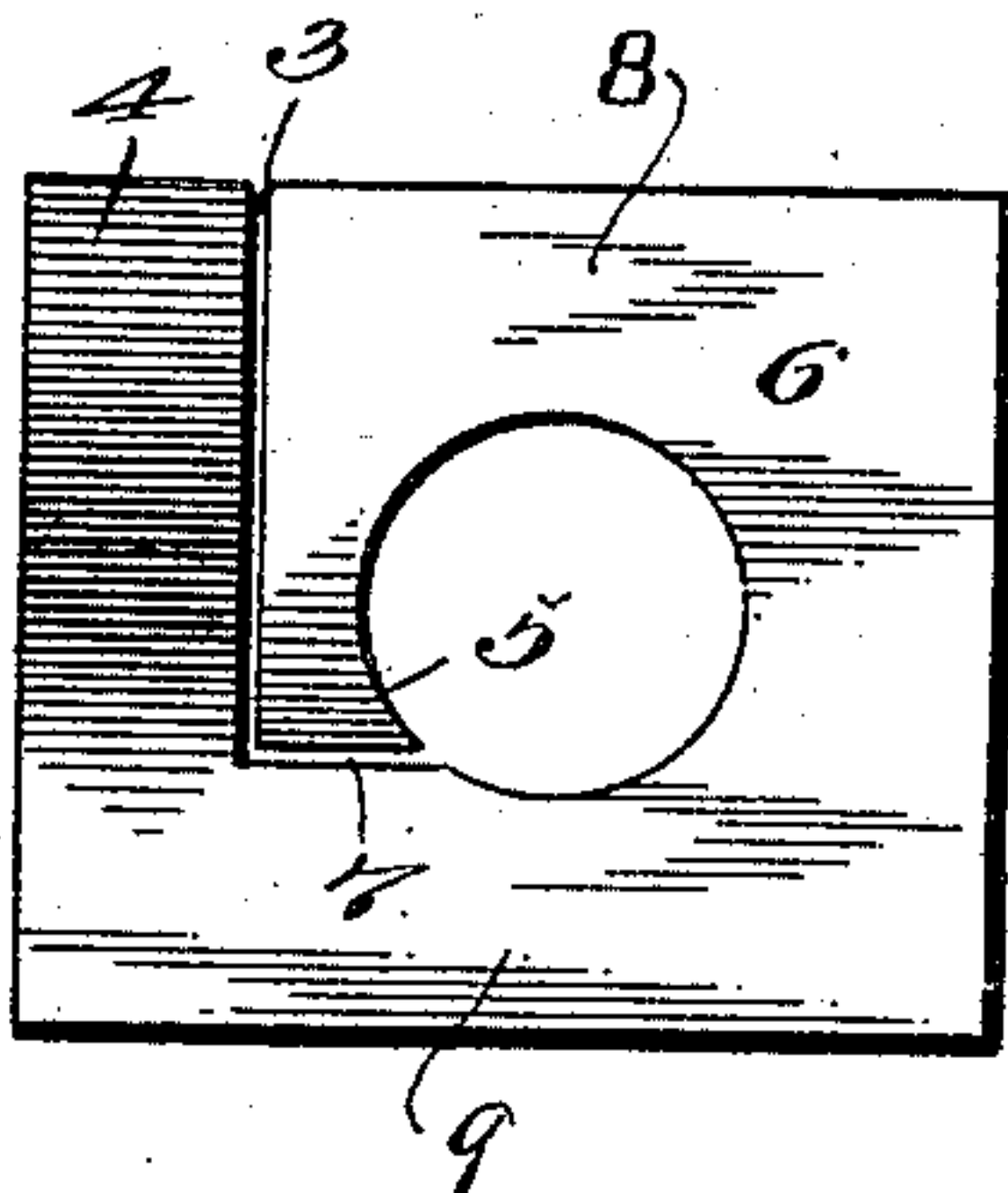


Fig 3.



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# UNITED STATES PATENT OFFICE.

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## NUT-LOCK.

SPECIFICATION forming part of Letters Patent No. 693,805, dated February 18, 1902.

Application filed May 18, 1901. Serial No. 60,898. (No model.)

*To all whom it may concern:*

Be it known that I, THOMAS M. PRICE, a citizen of the United States, residing at Itasca, in the county of Hill and State of Texas, have  
5 invented a new and useful Nut-Lock, of which the following is a specification.

The present invention relates to nut-locks, and particularly to that class embodying a base-washer having a spring-arm projecting  
10 from its outer face and arranged to engage the side of the nut to prevent its retrograde movement.

The object of this invention is to provide a simple and inexpensive article which will se-  
15 curely hold a nut in place upon a bolt and form a yielding support beneath the same. More particularly, the aim is to provide a comparatively long locking-tongue that will have great resiliency to permit of the free rotation  
20 of the nut in one direction, but will form an impassible obstacle against accidental movement in the other, and to provide an oppositely-disposed supporting or cushioning tongue having a broad bearing or gripping  
25 terminal and a contracted and resilient shank.

The preferred embodiment of the invention is clearly shown in the accompanying drawings, and the construction and operation thereof are fully described in the following specification. It will of course be understood that  
30 such slight changes may be made from the construction shown and described as will fall within the scope of the appended claim.

In the drawings, Figure 1 is a perspective  
35 view of a portion of a railway-rail joint, showing the improved nut-lock applied thereto. Fig. 2 is a perspective view of the lock detached. Fig. 3 is a plan view, and Fig. 4 is an edge view, of the same.

40 Similar numerals of reference designate corresponding parts in all the figures of the drawings.

The improved lock, as shown, is constructed of a single piece of spring sheet metal stamped  
45 to the appropriate shape. In the preferred embodiment it is rectangular in form, although it may be differently shaped, as desired. The washer is designated by the numeral 1 and is provided with a centrally-dis-  
50 posed bolt-receiving opening 2. It is furthermore provided with a slit 3, that extends into

the same from one edge to a point approximately in line with the opposite edge of the bolt-receiving opening, from whence the slit  
is continued, as indicated at 7, at right angles 55 into the said opposite side of the opening, thus separating this side of the washer into two oppositely-disposed tongues 4 and 5. The outer tongue 4 is offset on one side 6 of the washer and curved from its base to its outer or free end, 60 thereby constituting the locking-tongue. The other tongue 5 is offset on the opposite side of the washer, and because of the particular location of the transverse slit 7 it will be seen that this tongue is provided with a broad ter- 65 minal bearing-foot and a contracted spring-shank, thus affording a secure gripping edge without sacrificing the resiliency desired. It will furthermore be seen by reference to Fig. 4 that this tongue is bent from the outer edge 70 of the washer, so that an exceedingly long shank is provided. The portion 8 of the washer between the base of the inner tongue and the opposite edge of said washer is likewise bent or offset from said outer edge to 75 the tongue, as shown in Figs. 2 and 4, and therefore when the lock is placed against the fish-plate or other object not only is the outer tongue 4 raised above the same, but the portion 9 between the base of said outer 80 tongue and the opposite edge of the washer is disposed at an inclination and spaced from the fish-plate, being located in a plane that intersects the plane of the portion 8. An angular tongue is therefore provided 85 which is equal in length to the length of the two sides of the washer, and great resiliency is thereby obtained. By this construction it will be seen that both tongues are therefore made of the greatest possible length, and the 90 curving of the outer one affords an easy incline over which the nut will readily ride while being threaded upon the bolt. At the same time after the edge has passed said tongue will spring up behind the same, and 95 thus prevent its retrograde movement. The free edge of the inner tongue, on the other hand, bears against the adjacent surface of the article held by the bolt, and because of its great width it provides a long biting edge, 100 the contracted shank, however, affording the necessary resiliency.



While the invention has been shown as applied to a railroad, it will be readily seen that it may be used in other connections, and when applied on flat surfaces the above-mentioned biting edge will be particularly valuable.

From the foregoing it is thought that the construction, operation, and many advantages of the herein-described invention will be apparent to those skilled in the art without further description, and it will be understood that various changes in the size, shape, proportion, and minor details of construction may be resorted to without departing from the spirit or sacrificing any of the advantages of the invention.

Having thus described the invention, what I claim is—

A nut-lock comprising a base-washer having a bolt-receiving opening therethrough, said washer having a straight slit extending into the base from one edge to a point in line with the opposite edge of the bolt-receiving opening and extending from said point in a straight line into the opening at said opposite edge, thereby forming a pair of oppositely-projecting tongues 4 and 5, the outer

tongue 4 being offset and arranged at an inclination to the remainder of the washer, the inner tongue 5 being located inside of the outer tongue, said inner tongue and the portion 8 of the washer between its base and the opposite edge of said washer being offset and arranged at an inclination to the remainder of the washer, and being furthermore offset on the opposite side to the tongue 4, whereby, when the washer is placed upon a fish-plate the outer tongue 4 and the portion 9 of the washer between its base and the opposite edge of the said washer will be raised above said fish-plate and constitute a locking-tongue that extends the length of two sides of the washer, said inner tongue 5 comprising a broad bearing-foot at its free terminal, and a contracted spring-shank between the terminal foot and its base.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of two witnesses.

THOMAS M. PRICE.

Witnesses:

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J. M. COFFIN.