

No Model.

J. M. TELFER
NUT LOCK.

No. 441,990.

Patented Dec. 2, 1890.

Fig. 1.

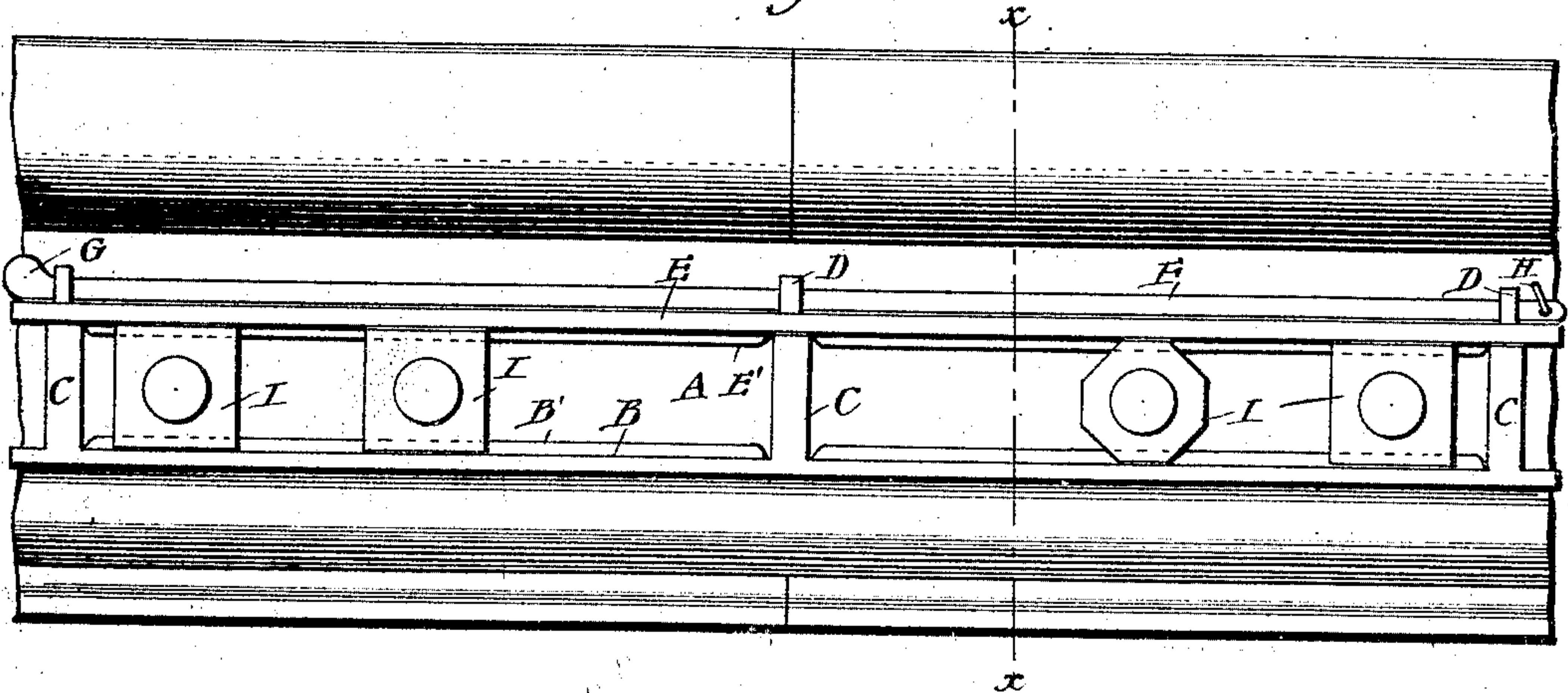


Fig. 2.

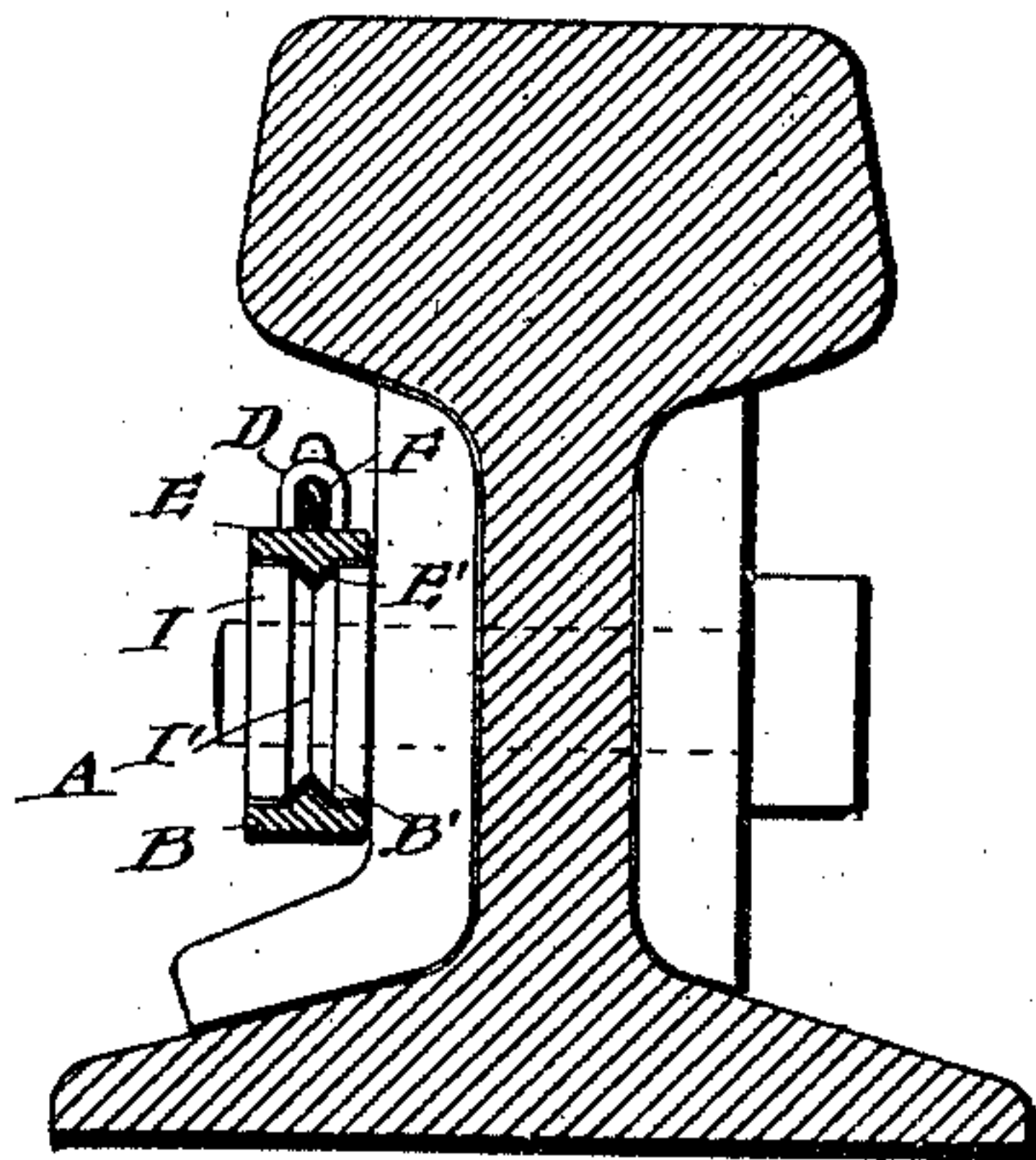


Fig. 4.

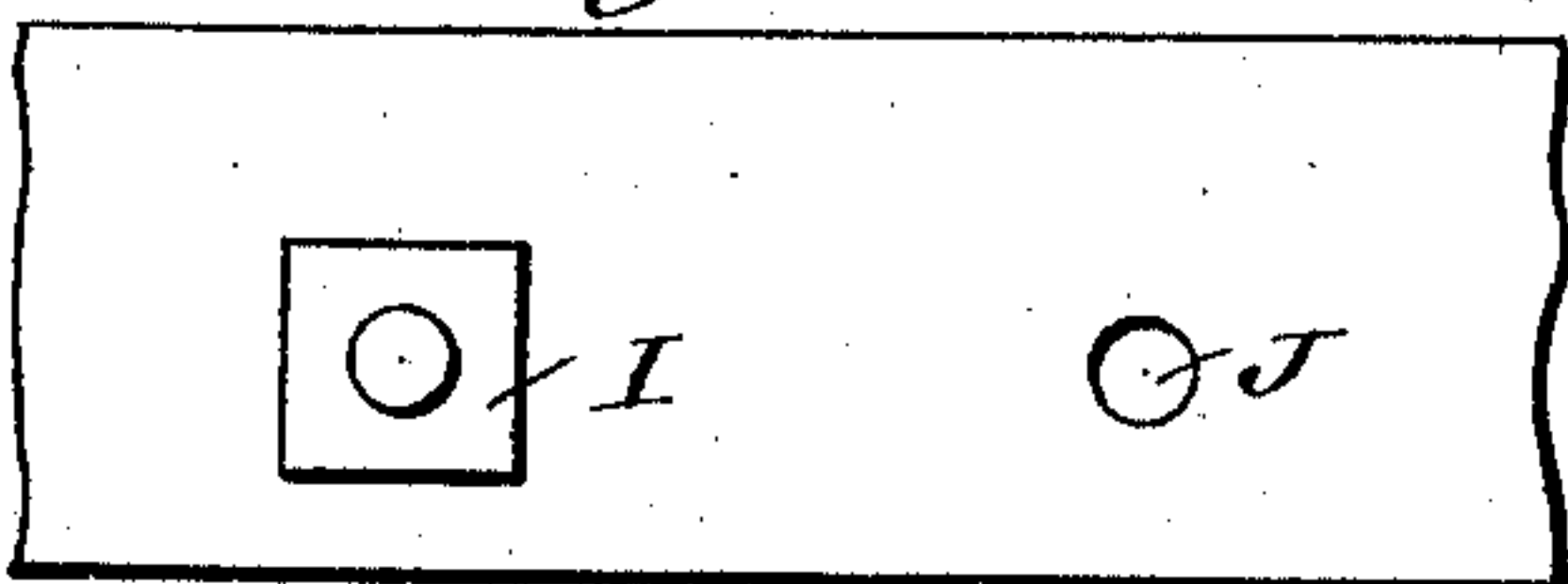


Fig. 5.

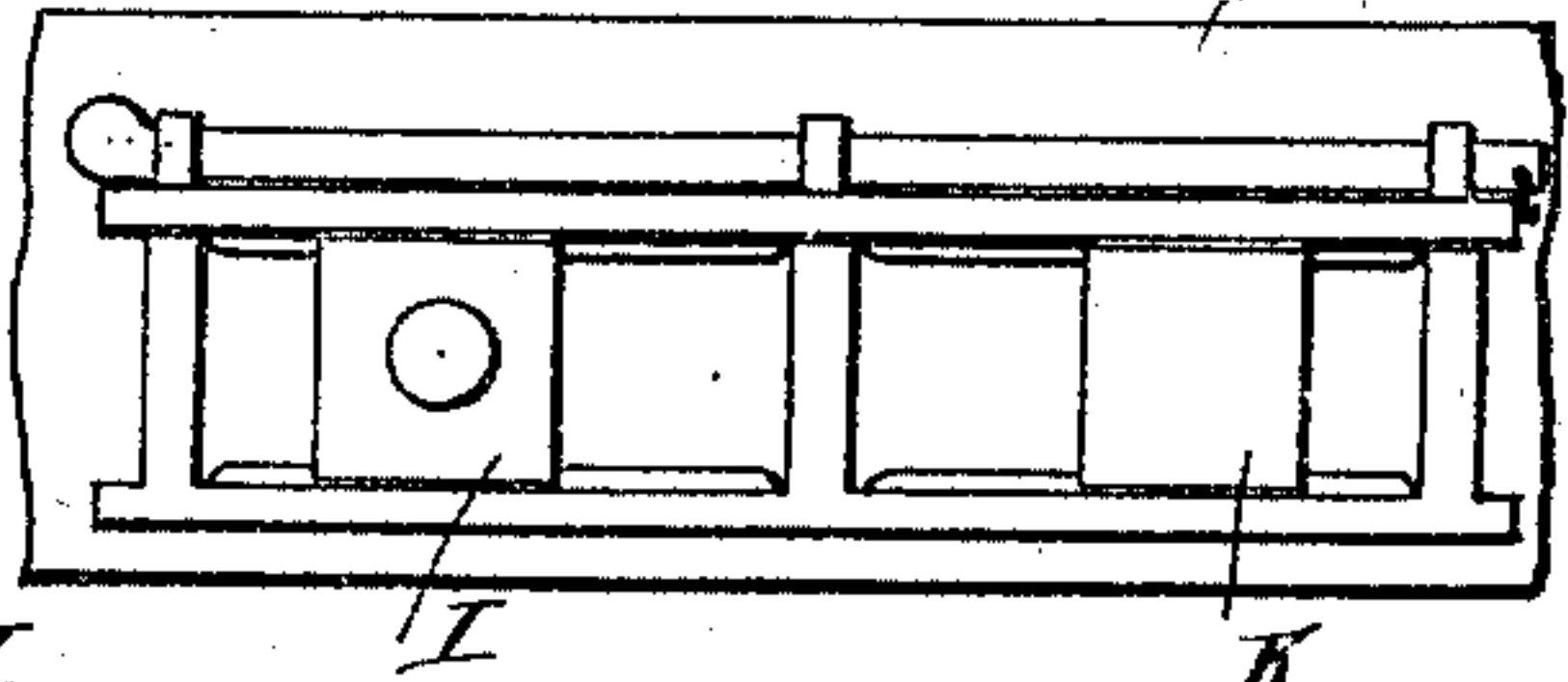
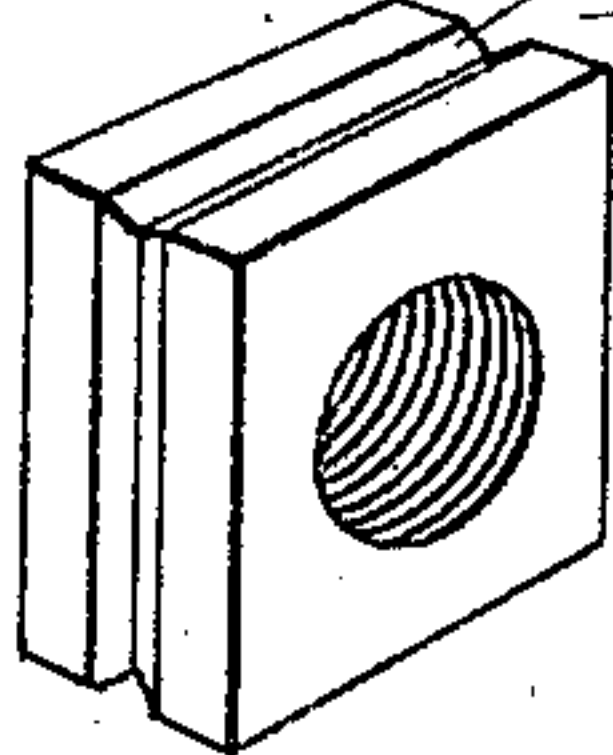


Fig. 3.



WITNESSES:

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UNITED STATES PATENT OFFICE.

JAMES M. TELFER, OF MINERVA, OHIO.

NUT-LOCK.

SPECIFICATION forming part of Letters Patent No. 441,990, dated December 2, 1890.

Application filed July 31, 1890. Serial No. 360,493. (No model.)

To all whom it may concern:

Be it known that I, JAMES M. TELFER, of Minerva, in the county of Stark and State of Ohio, have invented a new and Improved Nut-
5 Lock, of which the following is a full, clear, and exact description.

The object of the invention is to provide a new and improved nut-lock which is simple and durable in construction, serves to securely
10 hold one or a series of nuts in place, and is adapted for use on all kinds of machinery.

The invention consists of a frame having parallel sides, of which one is removable, and which are adapted to engage opposite sides
15 of the nut.

The invention also consists of certain parts and details and combinations of the same, as will be hereinafter fully described, and then pointed out in the claims.

20 Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar letters of reference indicate corresponding parts in all the figures.

Figure 1 is a side elevation of the improvement as applied on fish-plates for rails. Fig. 2 is a transverse section of the same on the line $x x$ of Fig. 1. Fig. 3 is a perspective
25 view of one of the nuts, and Figs. 4 and 5 illustrate the application of the lock to a single nut.

30 The improved nut-lock is provided with a frame A, having a longitudinally-extending base B, on which are erected a number of posts C, each provided on its upper end with a slightly-reduced eye D, over which passes the
35 top bar E, resting on the top of the posts C. Through the several eyes D on the top of the top bar E is adapted to pass a key F, provided on one end with a head G and on its other
40 end with a ring, cross-pin, or other device H to prevent the key F from becoming disconnected from the eyes D. On the inner sides of the base B and the top bar E are formed longitudinally-extending ridges B' and E',
45 respectively, adapted to engage correspondingly-shaped grooves I', formed on the sides of the nuts I to be locked in place.

50 The device is used as follows: The several nuts I, after being screwed up to unite the parts for which the bolts are employed, are turned in such a manner that their bottom and top sides are in line one with another.

The frame A for locking the several nuts in place has the key F and a top bar E removed, and is then placed with its base B' against
55 the under side of the said nuts I, so that the longitudinal ridge or ridges B' in the said base engage the several grooves formed in the lower sides of the nuts I. The top bar E is then placed over the eyes D, so that the ridge
60 E' engages the corresponding grooves in the upper sides of the nuts, after which the key F is passed through the eyes D, so as to lock the top bar E in place. The key F is then
65 secured in place by a ring, cross-pin, or other device G passed through the end of the said key, as is plainly illustrated in Fig. 1. The several nuts are then locked in place, and are prevented from turning, as two opposite sides engage ridges in the frame B.
70 The latter is prevented from slipping off the nuts on account of the ridges B' and E' engaging the grooves I' in the several nuts I.

In Figs. 4 and 5 the application of the lock to the nut of a single bolt is illustrated. In
75 line with and at a suitable distance from the single bolt held by a nut I, similar to the nuts I previously described, is made a hole J, in which is inserted a dummy bolt K, having its head grooved similarly to the nuts I. The
80 frame A is then placed upon the nut I and head of the bolt K the same as previously described for the two nuts I.

It will be seen that the nut-lock is very simple and durable in construction and can
85 be readily applied on the nuts or taken off whenever desired.

Instead of using the key F, padlocks or separate keys may be employed, engaging the upper ends of the eyes on top of the top bars E.
90

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

1. In a nut-lock, a frame having parallel sides, of which one is removable and the two
95 sides are adapted to engage opposite sides of the nut, substantially as described.

2. A nut-lock comprising a base provided with posts projecting at right angles therefrom and each having an opening in its end,
100 a bar apertured to receive the apertured ends of the posts, and a key for entering the openings to lock parts together, substantially as described.

3. In a nut-lock, the combination, with nuts having grooves in their sides, of a frame provided with a base having a longitudinal ridge, and supporting a top bar also provided with a ridge to engage the grooves in the said nuts, substantially as shown and described.

4. In a nut-lock, a frame comprising a base having longitudinal ridges, posts erected on the said base, and a top bar adapted to be secured on the said posts and provided on its inside with longitudinal ridges, substantially as shown and described.

5. In a nut-lock, a frame comprising a base having longitudinal ridges, posts erected on the said base, and a top bar adapted to be secured on the said posts and provided on its inside with longitudinal ridges, and means, substantially as shown and described, for locking the said top bar in place on the said posts, as set forth.

6. In a nut-lock, the combination, with a nut provided on its sides with a continuous groove, of a frame comprising a base having

a longitudinal ridge adapted to engage the groove in one side of the said nut, posts erected on the said base, and a top bar held on the said posts, provided on its inner side with a ridge adapted to engage the groove in the side of the said nut opposite said base, substantially as shown and described.

7. In a nut-lock, the combination, with a nut provided on its sides with a continuous groove, of a frame comprising a base having a longitudinal ridge adapted to engage the groove in one side of the said nut, posts erected on the said base, a top bar held on the said posts, provided on its inner side with a ridge adapted to engage the groove in the side of the said nut opposite said base, and means for locking the said top bar in place, substantially as shown and described.

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Witnesses:

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