

No. 616,103.

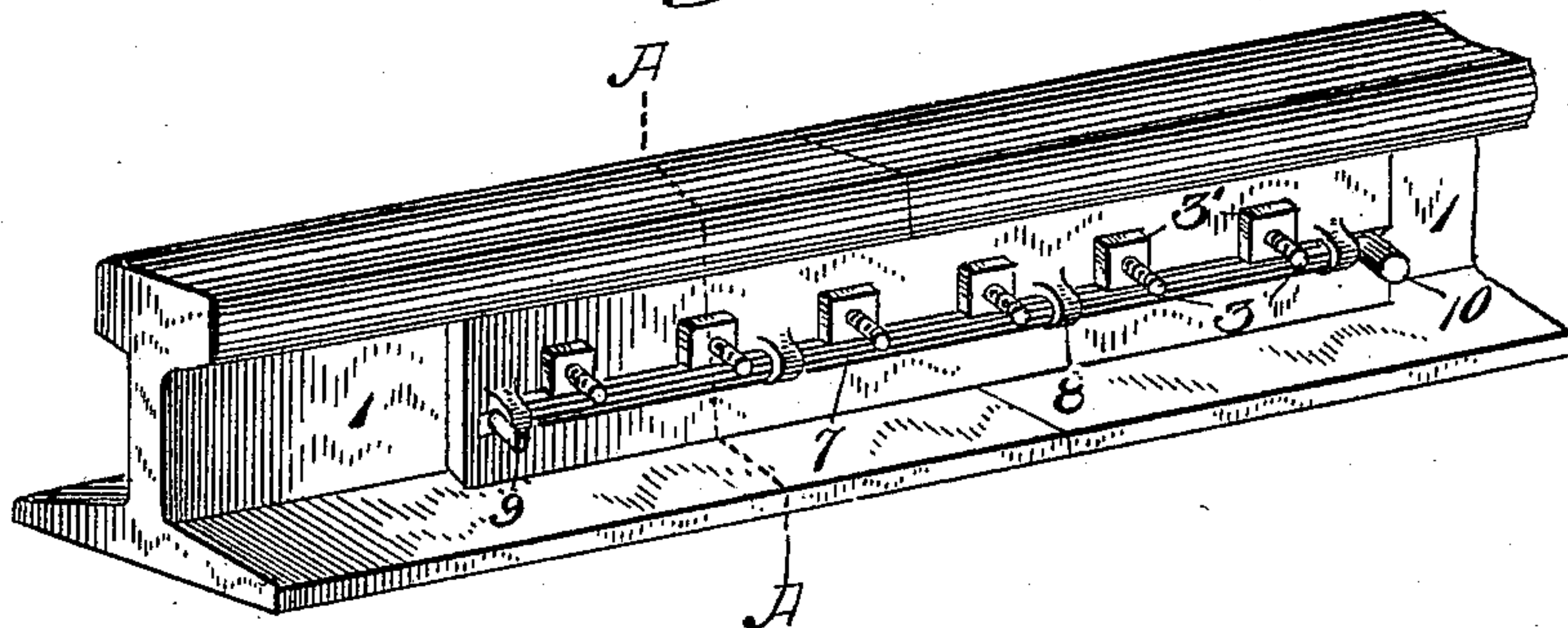
Patented Dec. 20, 1898.

R. HINES.  
NUT LOCK.

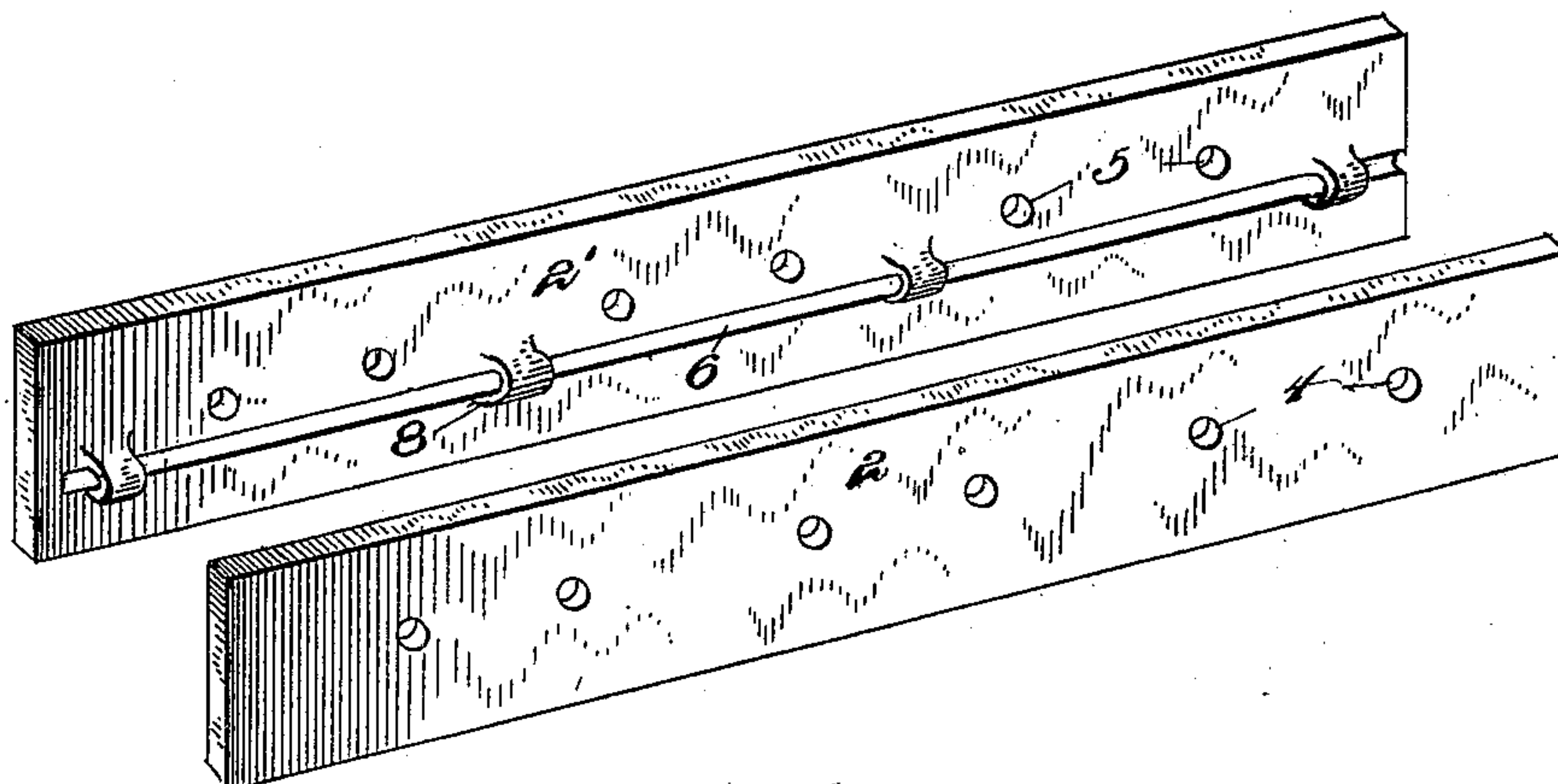
(Application filed May 2, 1898.)

(No Model.)

*Fig. 1.*



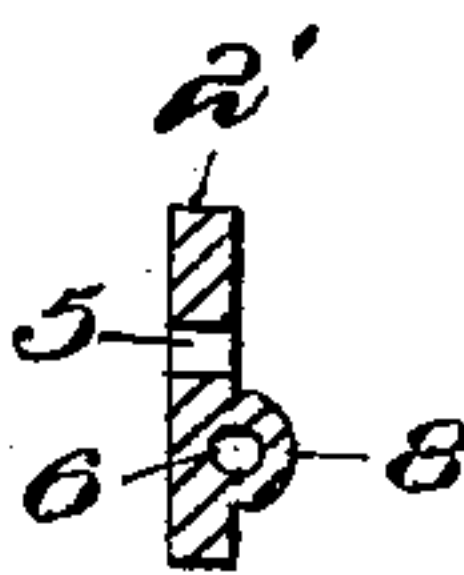
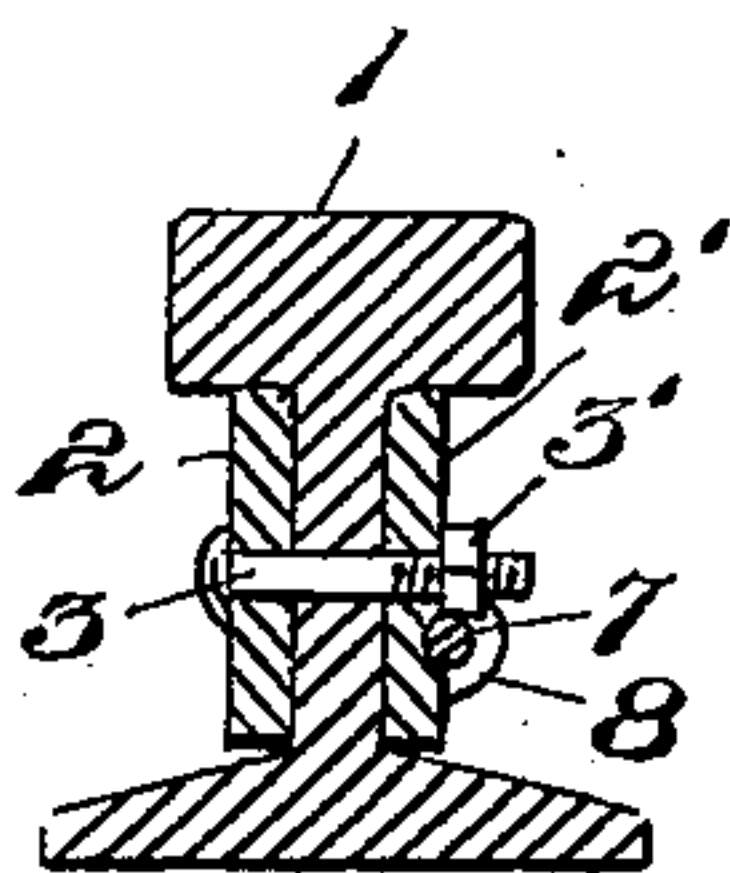
*Fig. 2.*



*Fig. 3.*

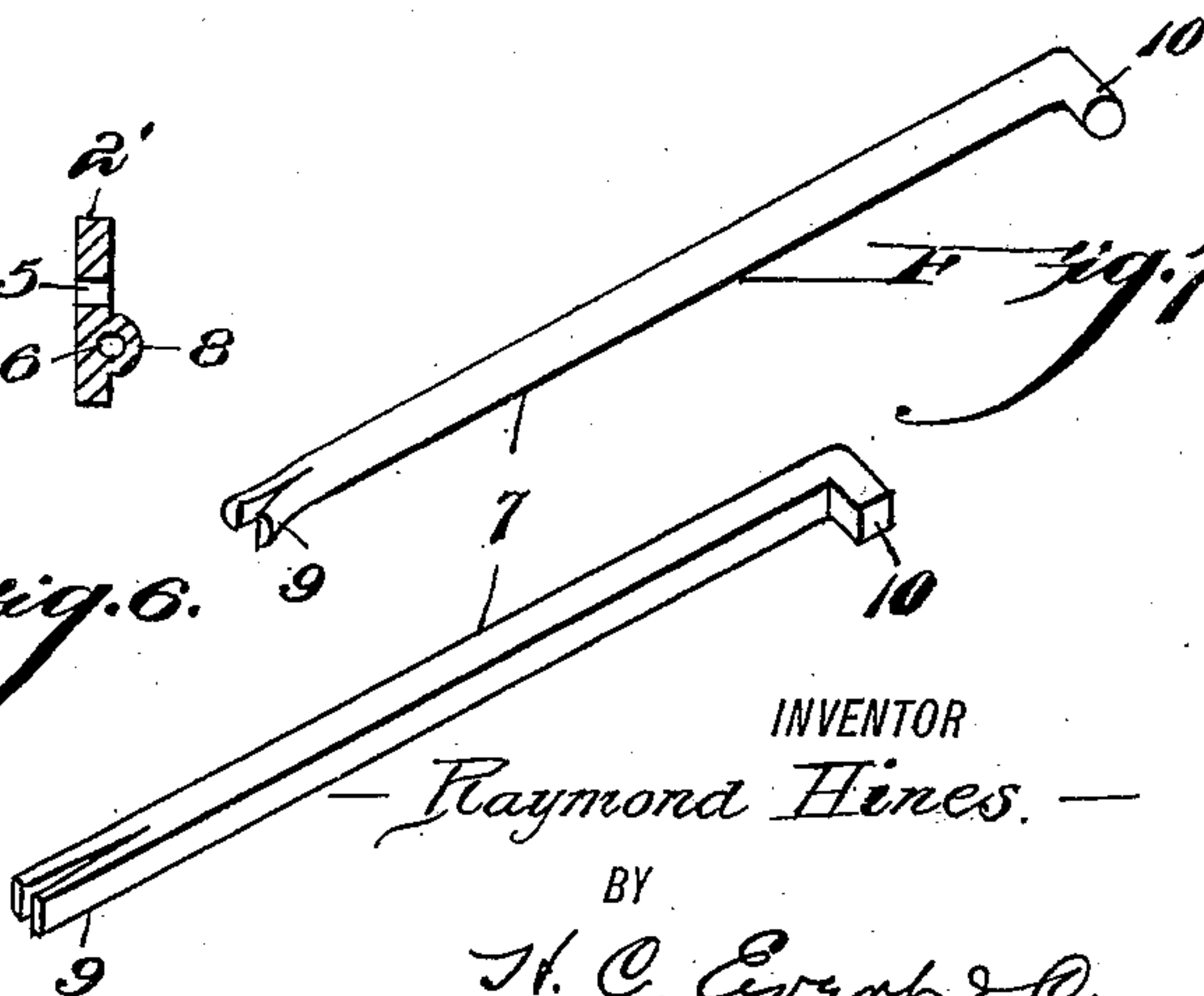
*Fig. 4.*

*Fig. 5.*



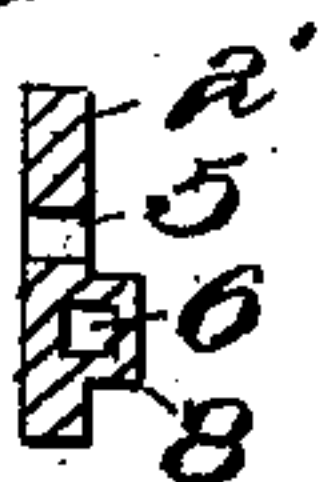
*Fig. 6.*

*Fig. 7.*



WITNESSES:

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# UNITED STATES PATENT OFFICE.

RAYMOND HINES, OF CRESSON, PENNSYLVANIA.

## NUT-LOCK.

SPECIFICATION forming part of Letters Patent No. 616,103, dated December 20, 1898.

Application filed May 2, 1898. Serial No. 679,420. (No model.)

*To all whom it may concern:*

Be it known that I, RAYMOND HINES, a citizen of the United States of America, residing at Cresson, in the county of Cambria 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.

This invention relates to certain new and useful improvements in nut-locks.

One object of my invention is to provide a simple, inexpensive, and efficient nut-lock and one adapted to be readily applied to rail-joints and capable of locking the nuts on the bolts to prevent them from accidentally unscrewing and adapted to release the nuts when desired to remove them from the bolts.

A further object of my invention is to provide a nut-lock which may be readily applied to bolts without necessitating any change either in the bolt or the nut.

A still further object of my invention is to provide a locking device for the nuts which is simple in its construction and very efficient in its use.

The invention further consists in the novel construction, combination, and arrangement of parts to be hereinafter more fully described, illustrated in the accompanying drawings, and pointed out in the claim hereto appended.

In the drawings, Figure 1 is a perspective view of a nut-lock in accordance with my invention. Fig. 2 is a perspective view illustrating the construction of the fish-plates. Fig. 3 is a vertical sectional view on the line A A of Fig. 1. Fig. 4 is a vertical sectional view of one of the fish-plates. Fig. 5 is a perspective view of the locking-bar, showing one end bent at right angles and the other end split. Fig. 6 is a vertical sectional view of a modified form of the fish-plate. Fig. 7 is a perspective view of a modified form of locking-bar.

Like figures of reference indicate corresponding parts in all of the figures of the drawings, in which—

1 designates a pair of rails, connected at their adjacent ends by fish-plates 2 and 2' and bolts 3 and nuts 3' of the ordinary construction. The fish-plate 2 has apertures 4 formed therein coinciding with the apertures in the rail and with apertures 5 of the fish-plate 2'. Underneath the apertures 5 in the fish-plate 2' is formed an elongated longitudinal groove 6, which is adapted to receive the locking-bar 7. Apertured guides or bands 8 are formed integral with the fish-plate 2' a suitable distance apart and preferably around and over the longitudinal groove for securing the locking-bar 7 in position. The said locking-bar is formed of a round metal bar and is split a short distance at one end, as at 9, and at its opposite end bent at right angles to form a handle, as at 10.

Fig. 6 shows a modification of the fish-plate 2', having apertured guides or bands formed integral therewith of square formation.

Fig. 7 shows a modification of the locking-bar of square formation.

From the foregoing description and the drawings the operation of my improved nut-lock can be readily understood.

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

The combination with a rail, of a pair of fish-plates having apertures therein registering with the apertures in the rail, screw-threaded bolts engaging said apertures, nuts engaging said bolts, guides or bands formed integral with one of said plates, a longitudinally-arranged groove formed in one of said plates and passing through said guides or bands, a locking-bar engaging said guides or bands and said groove and one face of the nuts thereby holding the same in position, substantially as shown and described.

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

RAYMOND HINES.

Witnesses:

J. H. LYNCH,  
CELESTINE LYNCH.