

No. 843,840.

PATENTED FEB. 12, 1907.

A. E. OGDEN.
NUT LOCK.

APPLICATION FILED MAR. 16, 1906.

Fig. 1.

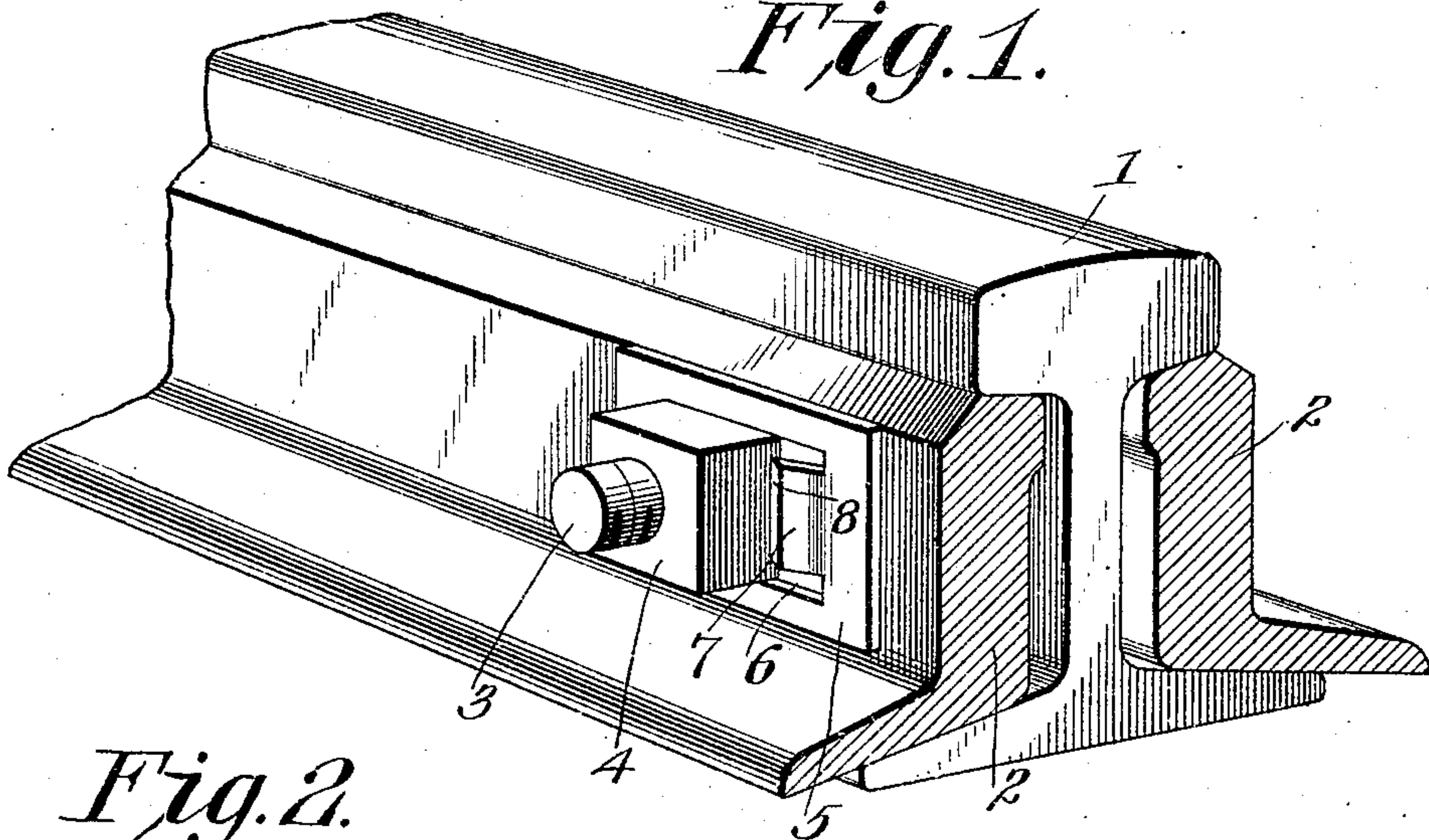


Fig. 2.

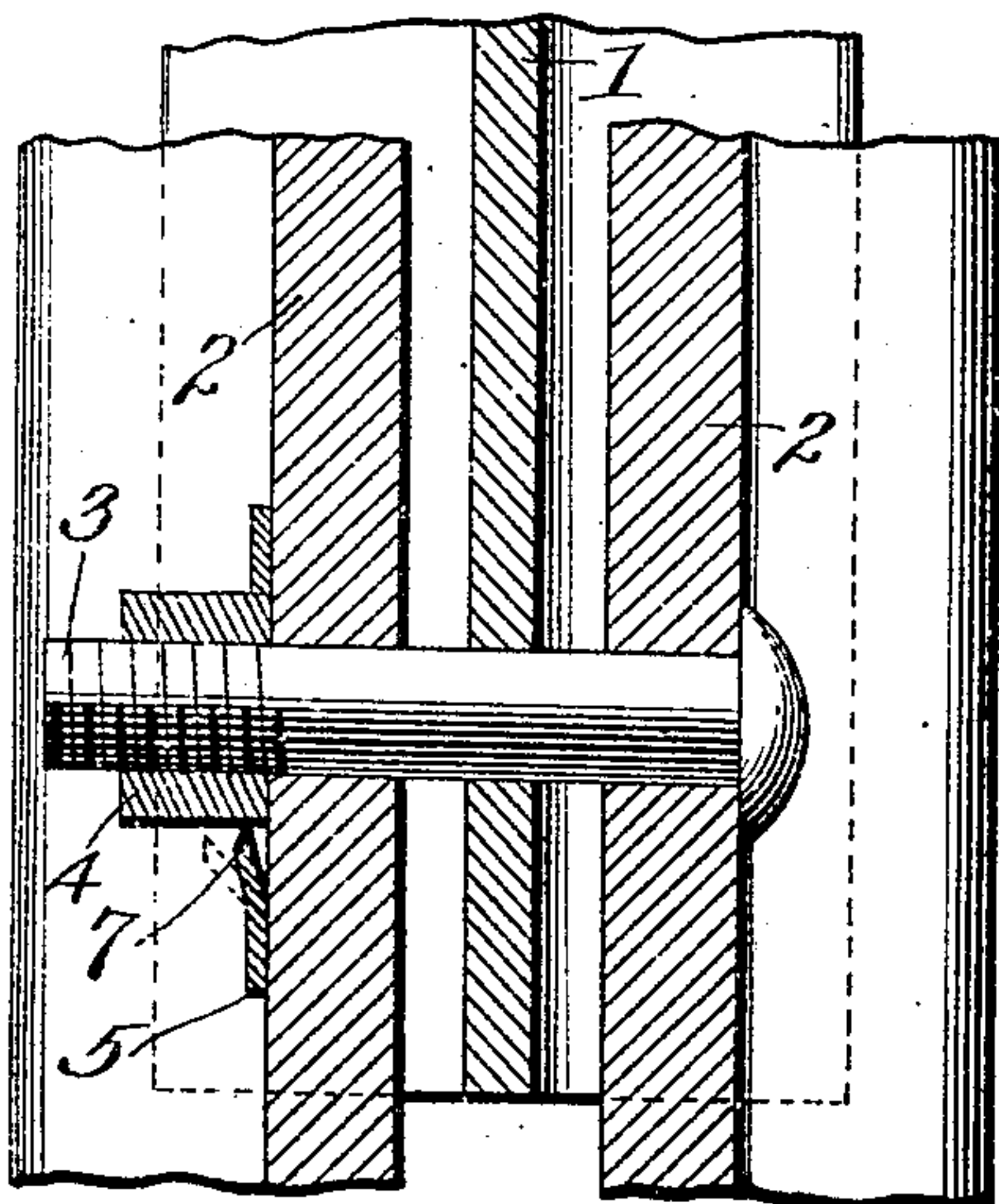


Fig. 3.

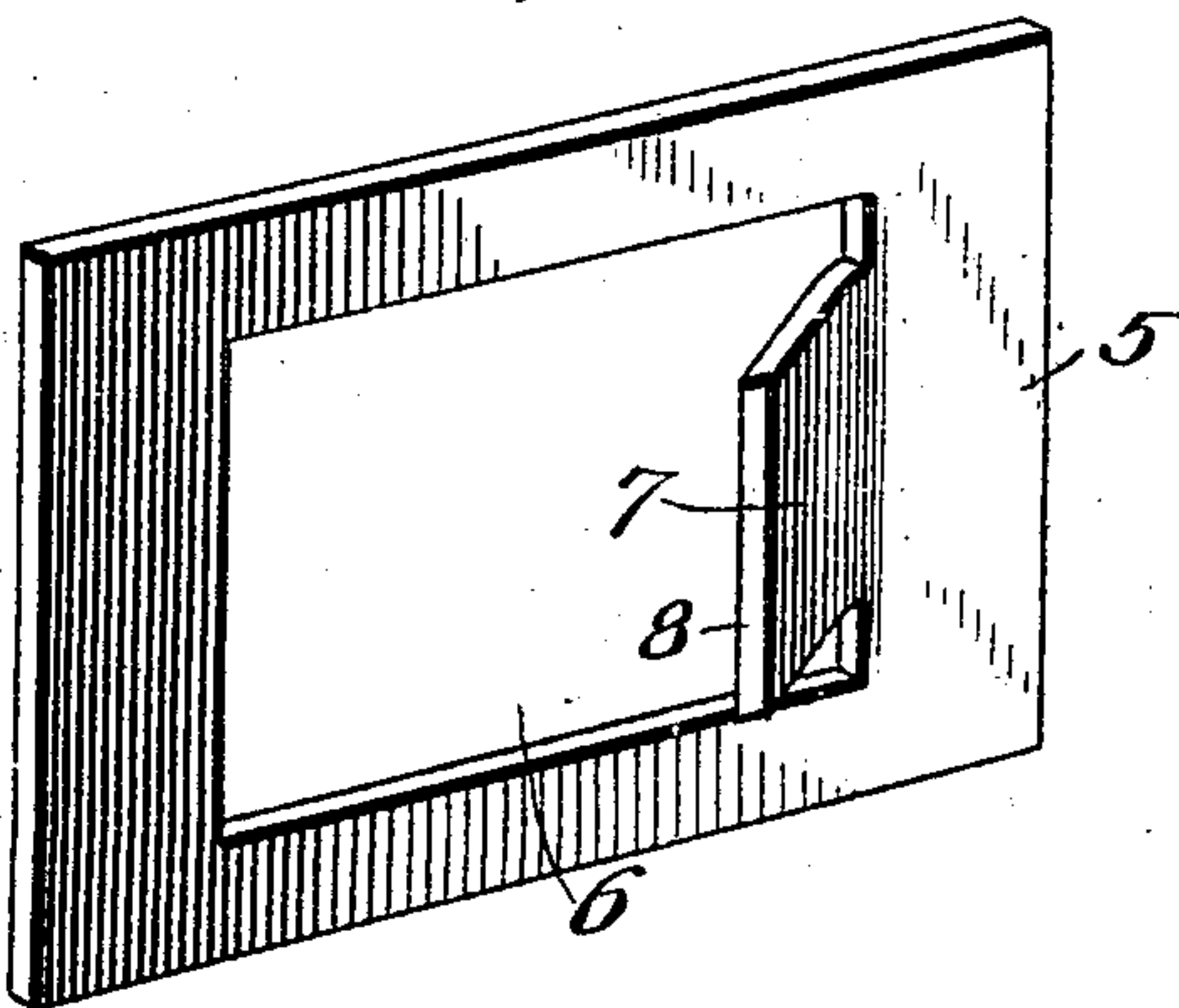
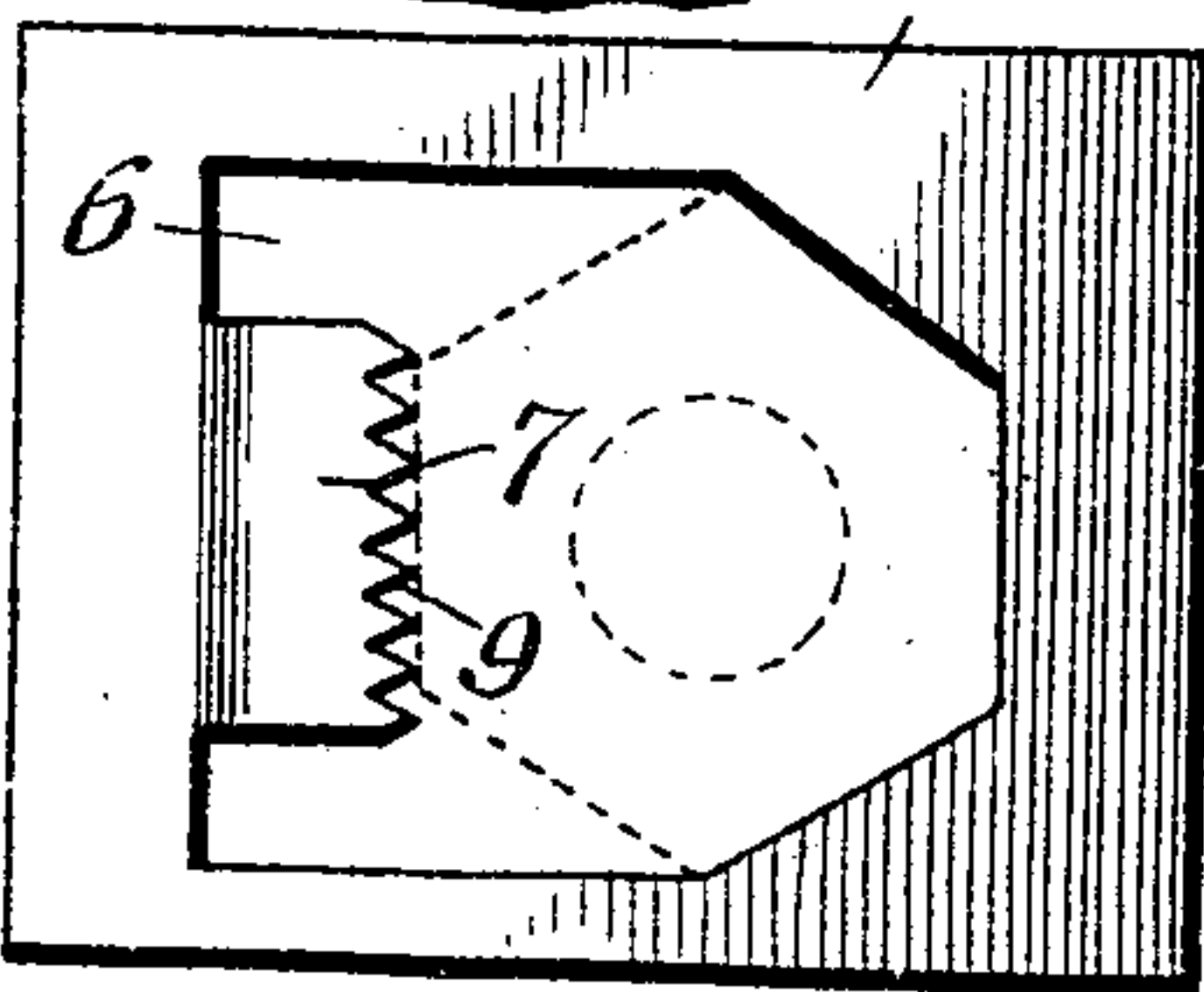


Fig. 4.



WITNESSES:

M. C. Lyddane
E. F. Hill

INVENTOR
A. E. Ogden

By *W. J. Fitzgerald & Co.*
Attorneys

UNITED STATES PATENT OFFICE.

ALBERT E. OGDEN, OF BIRMINGHAM, ALABAMA.

NUT-LOCK.

No. 843,840.

Specification of Letters Patent.

Patented Feb. 12, 1907.

Application filed March 16, 1906. Serial No. 306,451.

To all whom it may concern:

Be it known that I, ALBERT E. OGDEN, citizen of the United States, residing at Birmingham, in the county of Jefferson and State of Alabama, 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.

My invention relates to nut-locks, and more particularly to that class of locks adapted to be used in locking nuts upon fish-plates, splice-bars, and the like used in connection with railroad-rails.

The object of my invention is to provide a very cheap and durable device which will be positive in its action and one which can be readily applied to use.

Further objects and advantages will be hereinafter referred to, and pointed out in the claims.

In the accompanying drawings, which are made a part of this application, I have shown the preferred forms of my invention.

In the drawings, Figure 1 is a perspective view of one end of a railroad-rail, showing my improved nut-lock applied thereto. Fig. 2 is a central longitudinal section through the nut-lock and adjacent portions of the rail and fish-plates. Fig. 3 is a perspective view of my improved nut-lock ready to be applied to use, and Fig. 4 is a plan view of a form of lock adapted for use in connection with hexagonal nuts.

Referring to the figures by numerals of reference, 1 indicates a railroad-rail, which may be of any preferred construction. 2 indicates the usual or any preferred form of fish-plate, and 3 the usual form of bolt employed for locking the fish-plate to the rail. The free end of said bolt is screw-threaded to receive the usual form of nut 4.

My improved nut-lock consists of a plate 5, preferably rectangular in form, and is provided with an oblong opening 6. A locking-tongue 7 is provided at one end of the slot 6, said tongue being of less width than the slot 6, so that when said tongue is directed into operation the same will be free to move without binding; also, by making the locking-tongue of less width than the slot 6 a bar or other instrument can be readily inserted to unlock said tongue from the nut, whereby the entire lock can be readily removed when

desired. To insure that the locking-tongue 7 will positively engage the nut, the engaging end of the tongue is sharpened or made wedge-shaped, as at 8 in Fig. 3, or provided with serrations, as at 9 in Fig. 4, whereby the tongue will take into or adhere more securely to the nut.

In operation the bolt is placed through the fish-plate and rail in the usual manner and the nut 4 turned home on said bolt. After said nut has been turned home my improved nut-lock is then placed upon said nut, as best shown in Fig. 1 of the drawings, said nut entering the slot 6 therein. The tongue 7 is then driven inwardly until the same engages the nut 4 and by which means the said nut-lock is firmly locked upon the nut. The lower edge of said nut-lock is adapted to rest upon and engage the flanged portion of the fish-plate 2 and by which means the rotation of the nut and lock thereon is prevented.

If it is desired to remove the nut-lock, the point of a crowbar or the like is inserted behind the tongue 7 and said tongue pried outwardly, which will release the lock from the nut and allow the same to be readily removed.

In Fig. 4 of the drawings the slot in the locking-plate is constructed to receive a hexagonal nut; but in other respects it is the same as that shown in the other figures.

From the foregoing it will be seen that I have provided a very cheap and durable nut-lock and one that can be very readily applied to use or removed from position when desired, the construction thereof being such that it can be made with one stroke of a trip-forging.

While I have shown the plate as applied to a single nut, I desire it to be understood that when there are several nuts an elongated plate provided with a suitable number of openings and tongues may be used.

What I claim is—

1. In a nut-lock the combination with a railroad-rail having fish-plates, a bolt passing through said plates and rail and a nut on said bolt to secure said rail and plates together; of a locking-plate having a slot therein to receive said nut and a locking-tongue at one end of said slot formed integral with the plate and normally extending at an acute angle to the longitudinal plane of the plate, the free end of said tongue being adapted to be directed into engagement with one side of the

nut said locking-plate being of sufficient length to engage the fish-plate and prevent rotation of the locking-plate.

2. In a nut-lock the combination with a
5 railroad-rail having fish-plates, a bolt passing through said plates and rail and a nut on said bolt to secure said rail and plates together; of a locking-plate having a slot therein to receive said nut the lower edge of said plate be-
10 ing adapted to engage a portion of the fish-plate and prevent the rotation of the plate, a locking-tongue at one end of said slot and integral with the plate, said tongue being nor-

mally at an acute angle to the longitudinal plane of the plate and engaging means at the
15 free end of said tongue adapted to engage one side of the nut when said tongue is directed inwardly.

In testimony whereof I have signed my name to this specification in the presence of
20 two subscribing witnesses.

ALBERT E. OGDEN.

Witnesses:

L. J. HALEY, Jr.,

W. J. RYAN.