

No. 850,459.

PATENTED APR. 16, 1907.

W. BARTLEY.
NUT LOCK.

APPLICATION FILED MAR. 28, 1906.

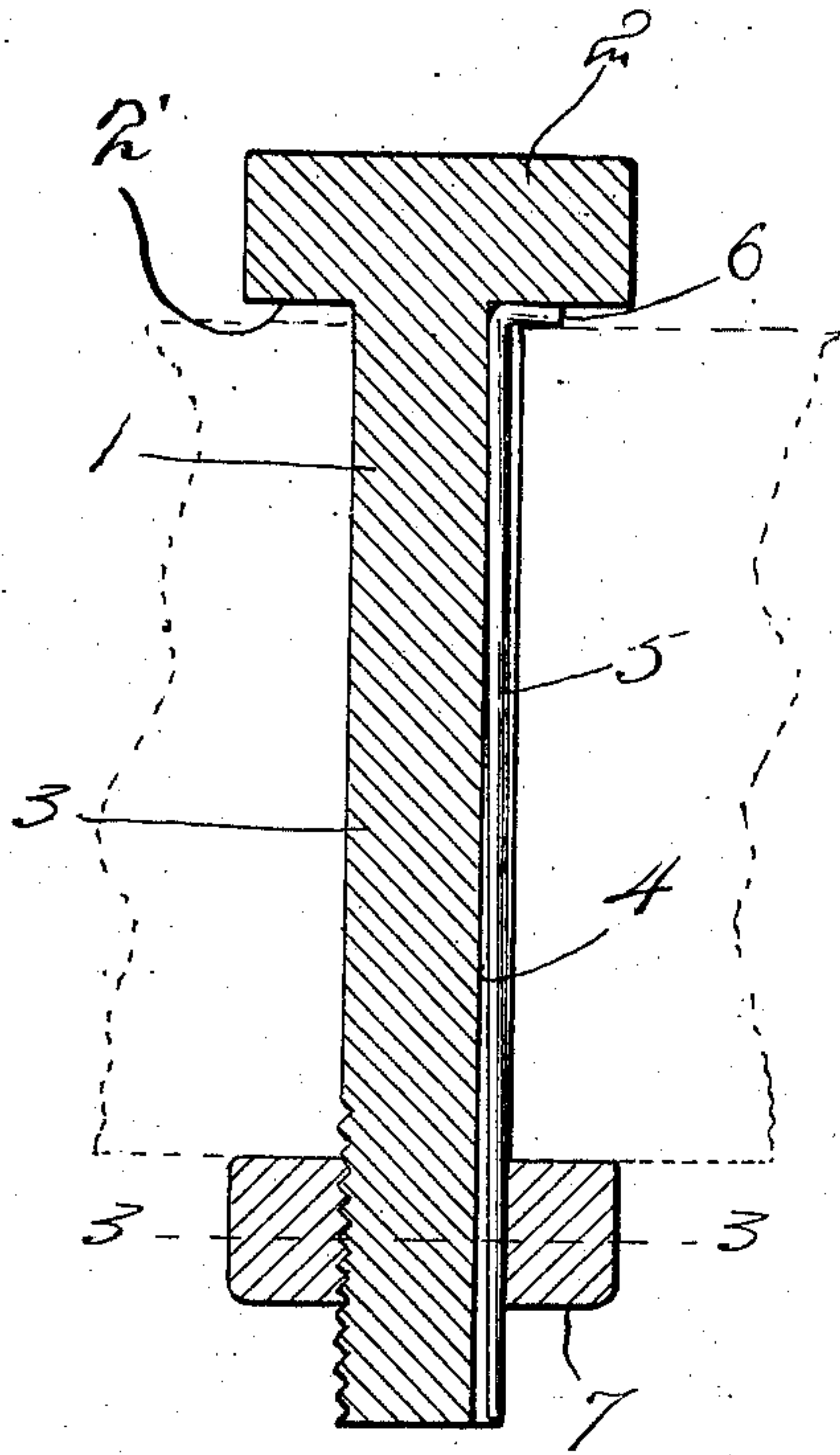


FIG. 1.

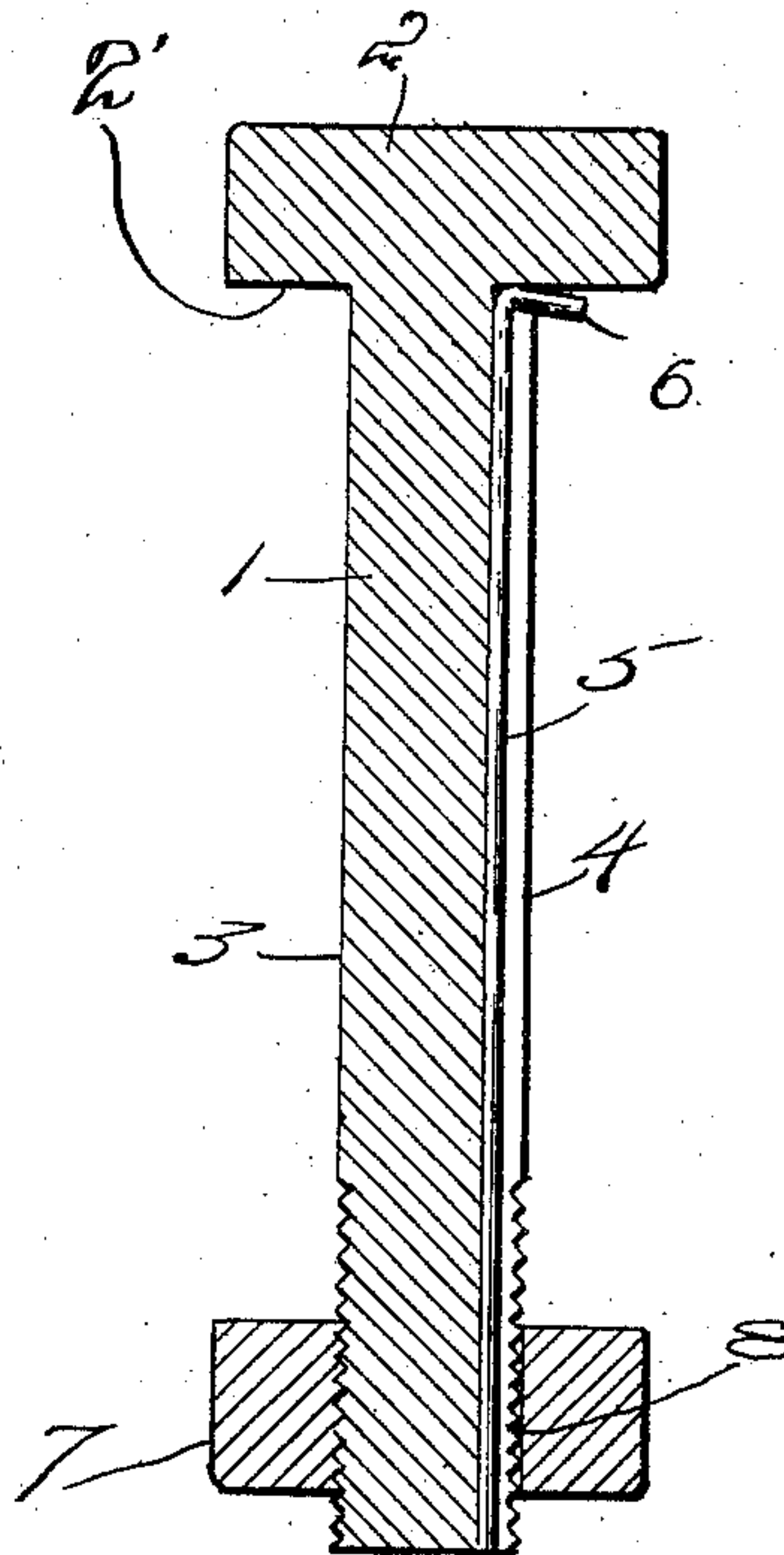


FIG. 2.

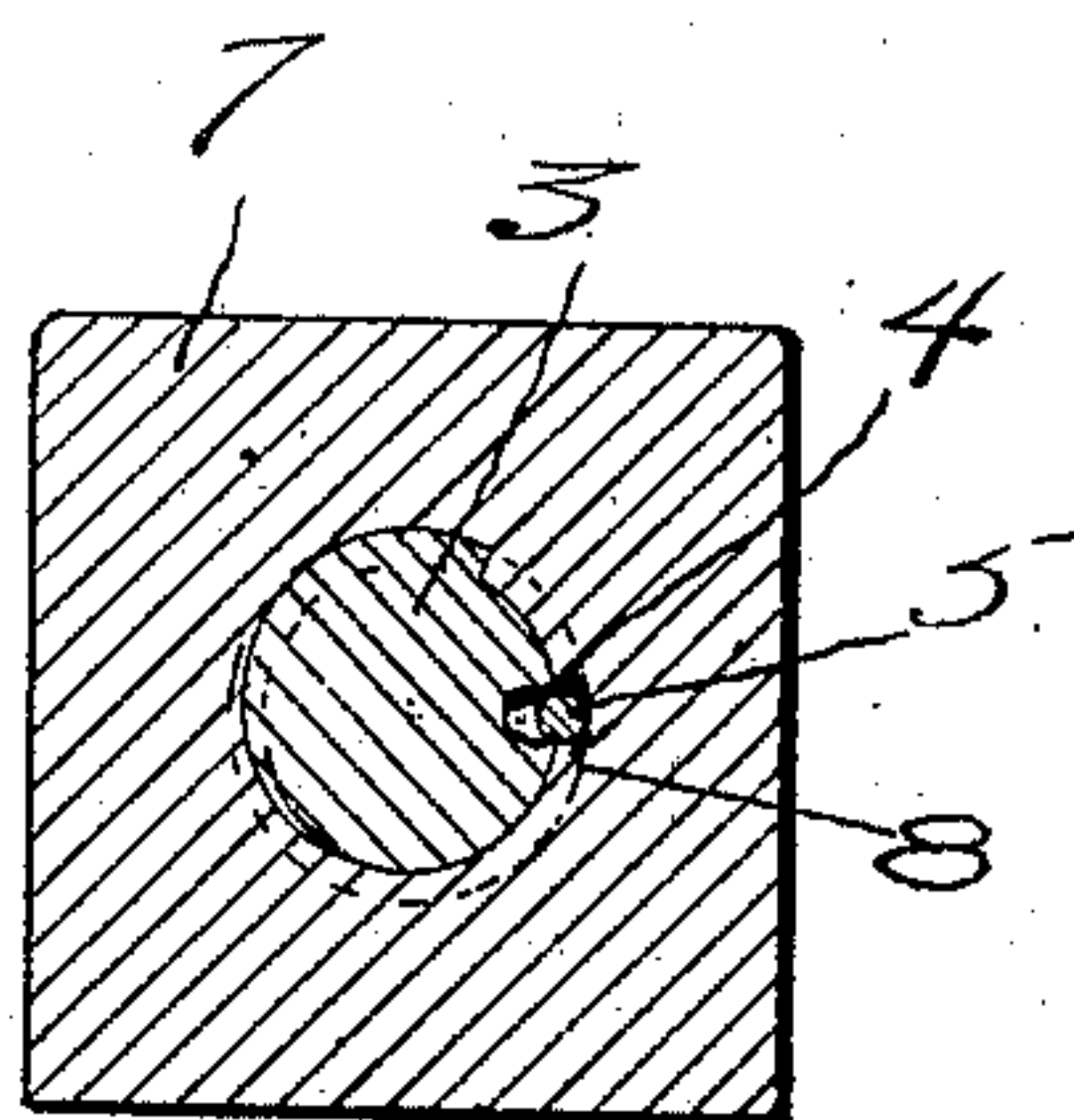


FIG. 3.

Witnesses
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WILEY BARTLEY, OF OCONEE, INDIAN TERRITORY.

NUT-LOCK.

No. 850,459.

Specification of Letters Patent.

Patented April 16, 1907.

Application filed March 28, 1906. Serial No. 308,558.

To all whom it may concern:

Be it known that I, WILEY BARTLEY, a citizen of the United States, residing at Oconee, Indian Territory, 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.

This invention relates to nut-locks, and has for its object to improve a construction of nut-lock and to provide a simple, effective, and inexpensive device for use in any locality where nuts and bolts are employed, and is particularly applicable to railway constructions. Other objects and advantages will be apparent from the following description.

In the drawings forming a portion of this specification, and in which like numerals of reference indicate similar parts in the several views, Figure 1 is a sectional view of a bolt and nut embodying this invention, the same being shown in their locking relation. Fig. 2 is a view similar to Fig. 1, showing the lock inoperative. Fig. 3 is a section on line 3 3 of Fig. 1.

Referring now to the drawings, 1 indicates a bolt having a head 2 and body portion 3. Running longitudinally of said body portion from end to end is a key-seat 4, having a greater depth than the thickness of the key 5, which is adapted to be received therein. The end 6 of the key 5 is bent laterally at an acute angle, the purposes of which will be hereinafter explained. The nut 7 is provided with an internal groove 8, adapted to register with the key-seat 4 once in each revolution during the operation of screwing the nut in place.

The operation of my device is as follows: The key 5 is inserted in the longitudinal key-seat 4, as shown, the bent end 6 of the key being disposed to rest against the inner face 2' of the head 2 of the bolt. The bolt and key are then passed through an opening in a body in which they are to be engaged, and the nut 7 is engaged with the threaded end of the bolt. As will be readily understood

by reference to the drawings, the free extremity of the portion 6 will initially extend toward the body in which the bolt is engaged and that when in this position the straight portion of the key will lie wholly within the seat 4. Operation of the nut to draw the head of the bolt toward the body will of course bring the free extremity of the portion 6 into engagement with the body, after which continued operation of the nut will cause the head 2 to force the inner end of the portion 6 toward the body, which will move the straight portion of the key 5 longitudinally in its seat, at the same time causing its free end to move out of the seat into position to engage in the groove 8 of the nut, when the nut will be securely locked against further movement. It will be observed that this locking will not take place until the nut has been tightened upon the bolt. By this simple means a very effective and inexpensive device for locking a nut in place is produced.

What is claimed is—

1. As an article of manufacture, a nut-lock comprising a bolt including a head and having a longitudinal seat therein terminating at the head, a nut having an internal groove located for registration with the key-seat, and a key adapted for engagement in the key-seat and having one end bent laterally at an acute angle, said bent portion being arranged to lie against the head of the bolt.

2. In a nut-lock, the combination with a bolt including a head and having a longitudinal key-seat in its body portion terminating at its head, a key engaged in the seat and having its end portion adjacent to the head turned laterally at an acute angle and engaging the head, and a nut engaged with the bolt and having an interior groove for registration with the key-seat.

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

WILEY BARTLEY.

Witnesses:

W. H. BURKES,
A. W. HILBURN.