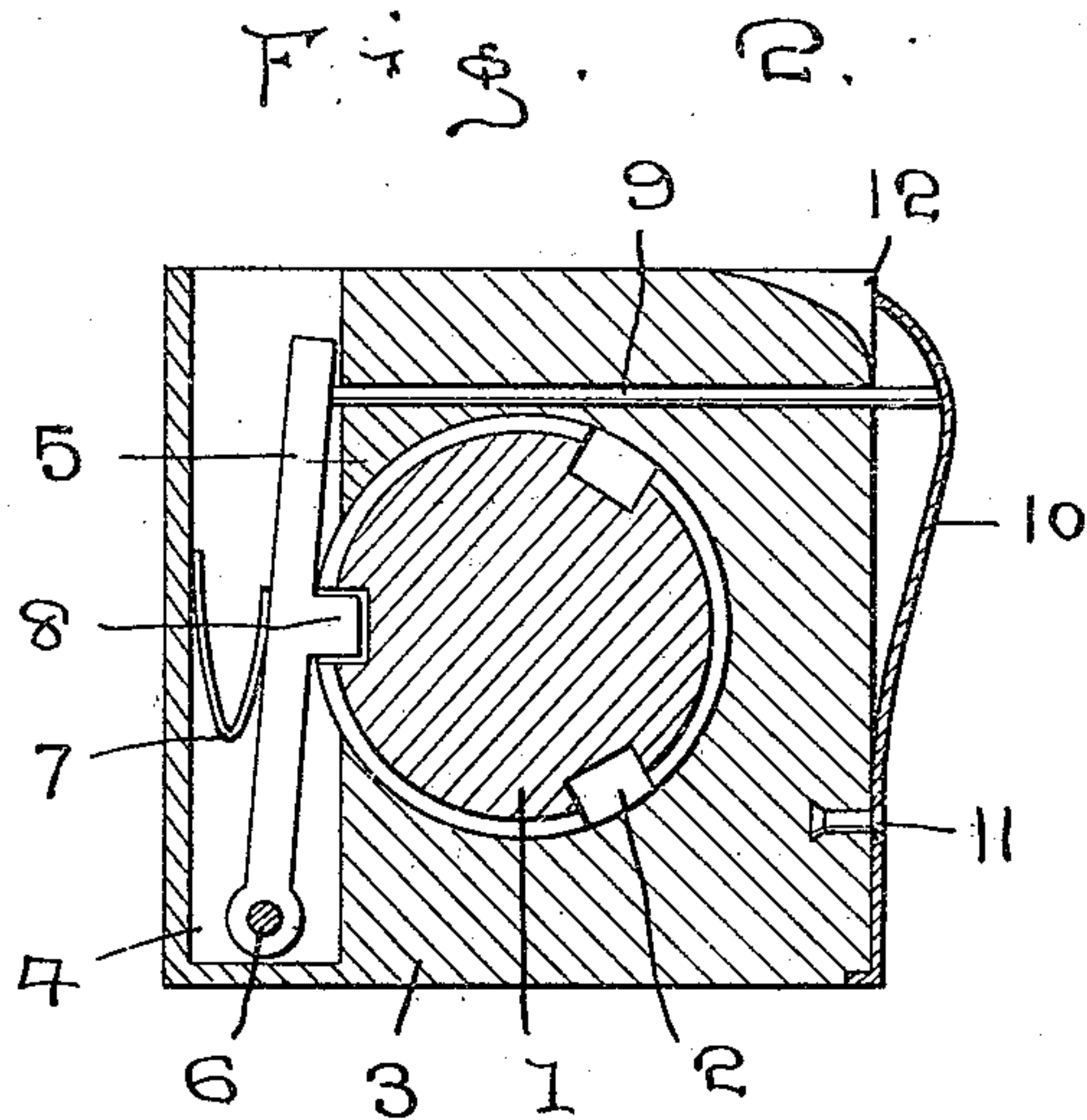
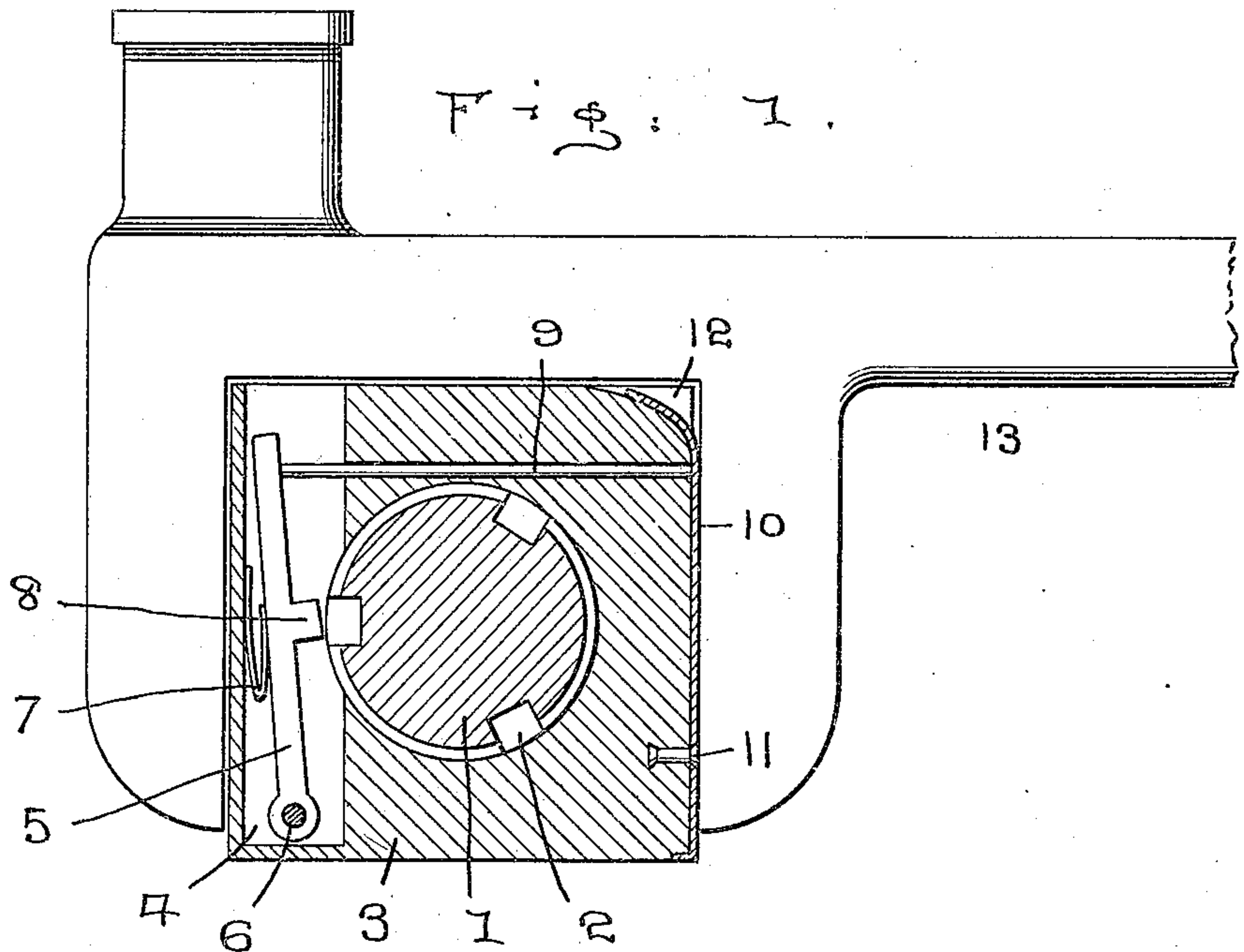


W. H. CASLOW.
 LOCKING DEVICE.
 APPLICATION FILED DEC. 14, 1909.

961,753.

Patented June 21, 1910.



WITNESSES:

Thomas Riley
M. Newcomb

INVENTOR
 W. H. Caslow
 BY *W. J. Fitzgerald & Co*
 Attorneys

UNITED STATES PATENT OFFICE.

WILLIAM H. CASLOW, OF CLARIDGE, PENNSYLVANIA.

LOCKING DEVICE.

961,753.

Specification of Letters Patent. Patented June 21, 1910.

Application filed December 14, 1909. Serial No. 533,033.

To all whom it may concern:

Be it known that I, WILLIAM H. CASLOW, a citizen of the United States, residing at Claridge, in the county of Westmoreland and State of Pennsylvania, have invented certain new and useful Improvements in Locking Devices; 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 new and useful improvements in locking devices and especially to the class relating to locking nuts having for an object to provide a device which will securely hold the nut in cooperation with the bolt on which it is to be secured.

A still further object is to provide a nut having a spring operated key so positioned as to normally hold the nut locked on the bolt.

These and other objects will be hereinafter more particularly referred to and pointed out in the specification and claims.

In the drawings forming a part of this application, Figure 1 is a longitudinal section of a bolt showing my improved nut-lock carried on said bolt and in a position to be removed therefrom by some suitable means, and, Fig. 2 is a longitudinal sectional view showing a bolt having my improved form of locking nut in a locked position.

Referring to the drawings in which similar reference numerals designate corresponding parts throughout the several views, 1 is a bolt having a plurality of longitudinal extending slots 2.

My improved form of locking nut 3 consists of a member preferably square in outline, while a transverse extending channel 4 extends adjacent one side of said nut for a portion of the length thereof and in said channel is a locking key 5 fulcrumed upon a pin 6, while a suitable spring 7 is positioned against the interior of the side wall adjacent the channel 4 and adapted to exert pressure against said locking key 5. A substantially V-shaped projection 8 at about the longitudinal center of said locking key is adapted to cooperate with the slots 2 and be held in engagement therein for the purpose of preventing the nut from turning on the bolt.

A longitudinal extending channel at right

angles to the channel 4 permits a pin 9 to move laterally therein, said pin abutting against one edge of the locking key 5, while the other end thereof cooperates with a spring 10, said last mentioned spring being positioned on the exterior of the nut and held in engagement therewith by means of a rivet 11 or the like, one end of the spring 10 having a portion bent at right angles and seated in a suitable groove cut in the nut, while in the length of said spring beyond the rivet 11 is a curved portion, the movable end of the spring 10 being designed to enter a suitable cut out portion 12 when pressure is exerted against said spring by means of a spanner 13 or the like.

It is obvious that under ordinary circumstances, the spring 7 will force the locking member inwardly in order that the extension on the locking key 5 may enter the slots 2 for the purpose of locking the nut on the bolt. It is furthermore obvious that as soon as the spanner or wrench is forced against the spring 10 the latter will have a tendency to move the pin 9 laterally through its channel, and in so doing, swing the locking key upon its fulcrum so that its extension will pass out of engagement with the slots 2. It will therefore be seen that I have provided a locking nut which will remain securely on its corresponding bolt, against casual displacement, it only being necessary to use a suitable wrench or spanner for the purpose of removing said nut from said bolt. It is also obvious that the locking nut, as described, does away with any complicated, unessential features, thereby providing a simple inexpensive device for the purpose described.

What I claim is:—

1. A locking nut having a channel in one end thereof, a spring-held locking member mounted in said channel and adapted to have engagement with a bolt, a spring member mounted on the opposite end of said nut and means cooperating with said locking member and spring, whereby said locking member may be moved into and out of effective position.

2. A locking nut having a channel in one end thereof, a spring-held locking member pivoted at one end thereof in said channel and having a pendulum movement therein, said member being adapted normally to have engagement with a bolt, and a spring-held pin encountering a portion of said

locking member and adapted to move it out of effective position.

3. In a nut-lock, the combination with a bolt having longitudinal slots therein; of a nut having a channel in one end thereof, a spring-held locking member pivotally mounted in said channel and adapted to have engagement with the slots in said bolt, a pin extending through said nut at right angles to said channel and having one end encountering said locking member, and a spring means encountering the opposite end of said pin, whereby said locking member may be thrown out of effective position.

4. In a nut-lock, the combination with a bolt having longitudinal slots therein; of a nut engaging said bolt and having a channel in one end thereof, a spring-held locking member pivotally mounted in said channel and adapted to have engagement with the slots in said bolt, a pin extending through a channel in said nut at right angles to said first referred to channel, one end of said pin engaging a portion of said locking member, and a spring mounted on said nut at the opposite and outer edge and encountering the opposite end of said pin, whereby when said spring is forced inwardly, said locking member is thrown out of effective position.

5. In a locking nut having a channel in one end thereof, the combination with a locking member pivotally mounted in said channel, and a spring operating in said channel and adapted to retain said locking member in engagement with a bolt; of an additional spring-held means for forcing said locking member out of effective position.

6. In a locking nut having a channel in one end thereof, the combination with a locking member pivotally mounted in said channel and a spring operating in said channel and adapted to force said locking member into engagement with a bolt; of a pin extending longitudinally through said nut and having one end encountering said locking member and means operating at the opposite end of said pin to counteract the pressure of said spring and move said locking member out of effective position.

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

WILLIAM H. CASLOW.

Witnesses:

A. E. CASLOW,
HOWARD L. BETHUNE.