

No. 843,407.

PATENTED FEB. 5, 1907.

W. S. MASON.  
NUT LOCK.

APPLICATION FILED JUNE 27, 1906.

FIG. 1.

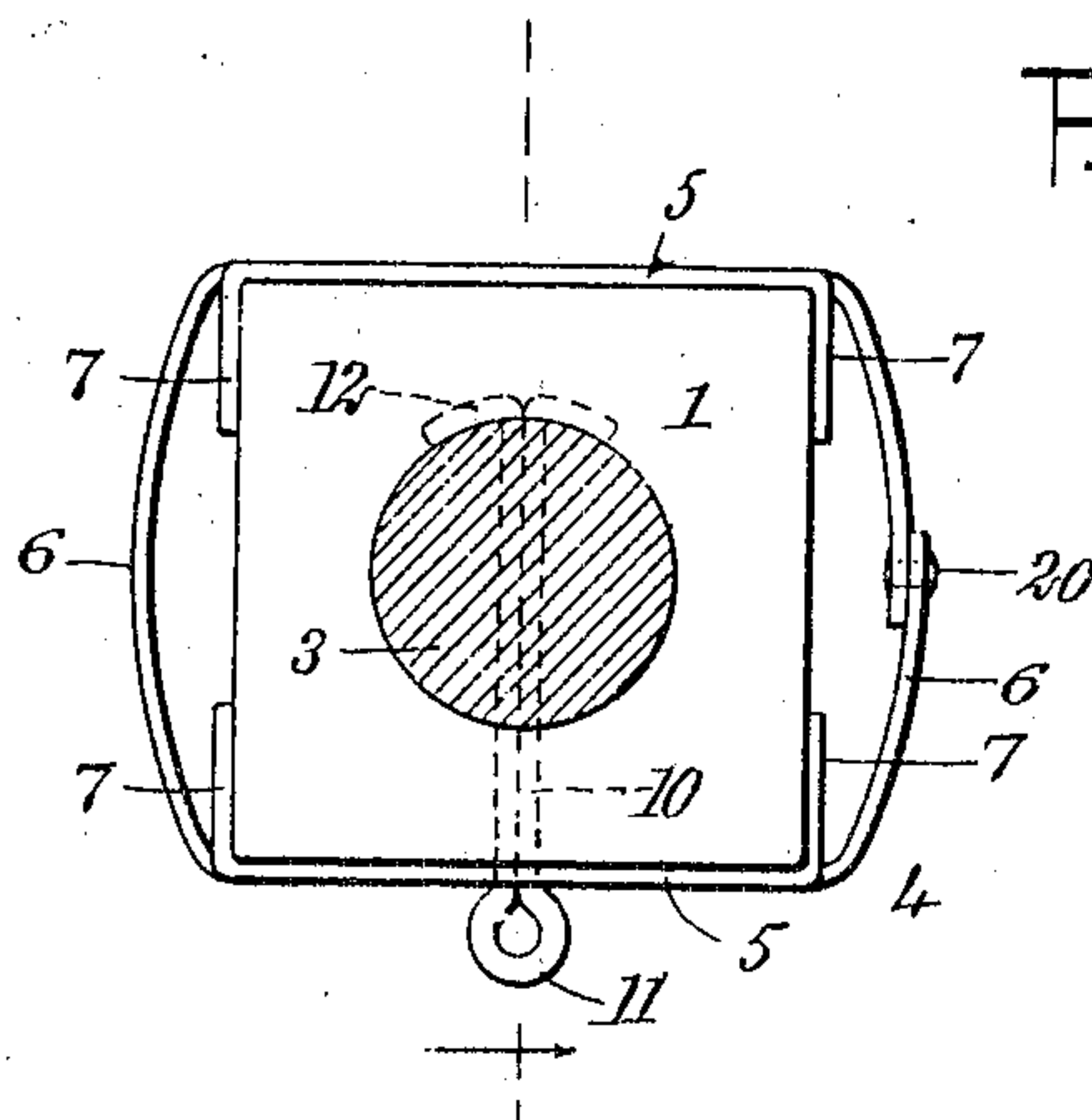


FIG. 2.

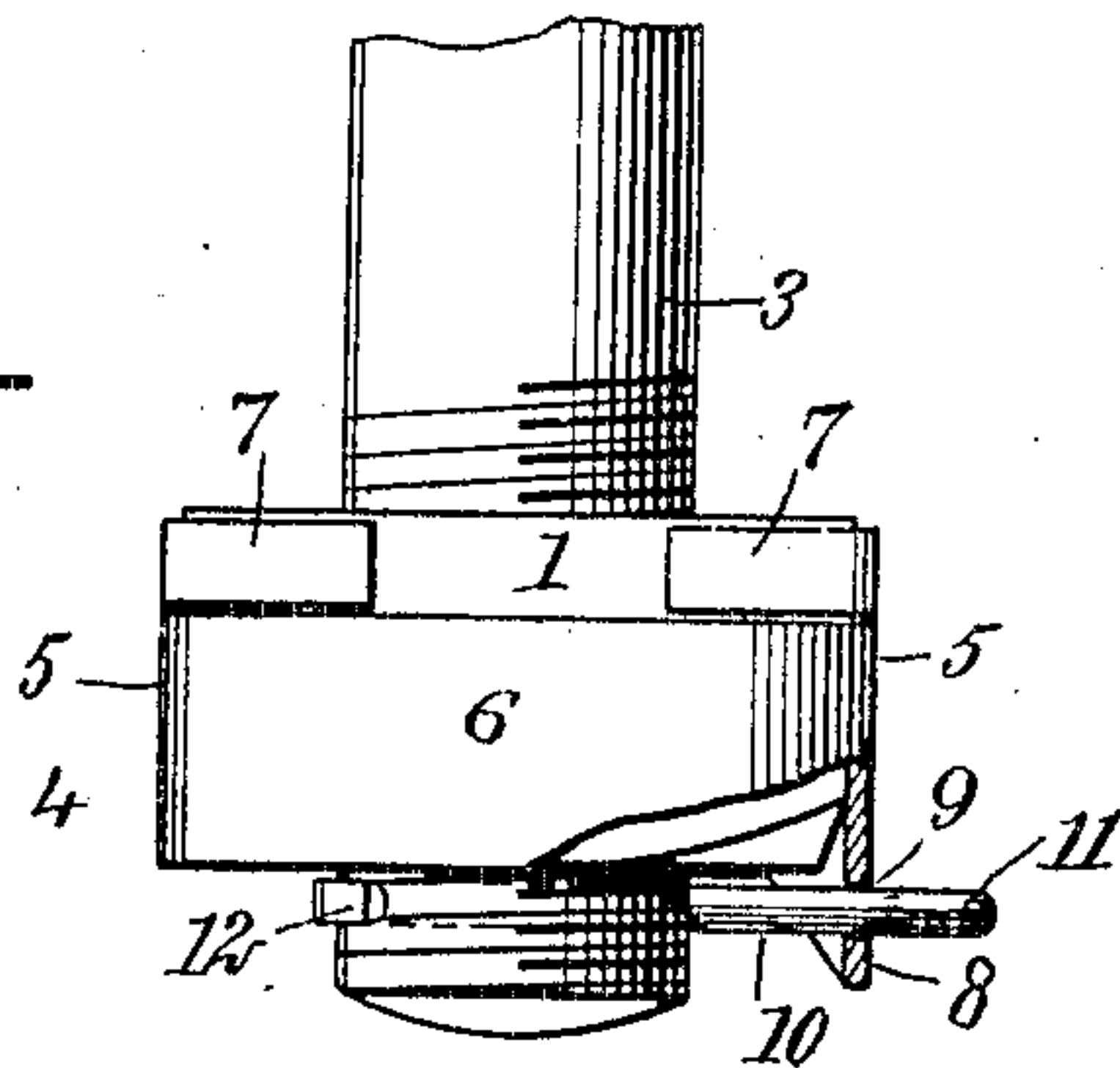
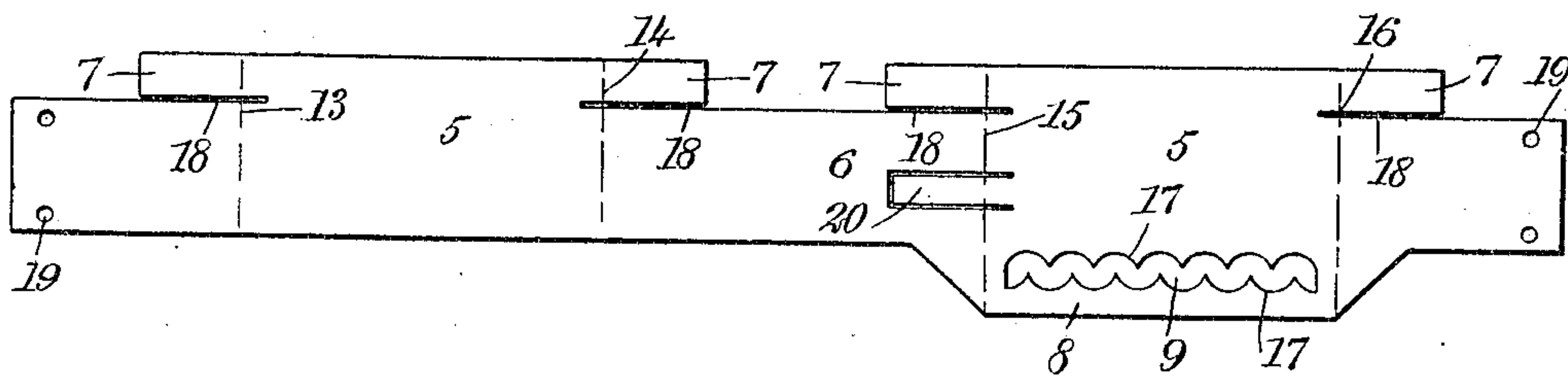


FIG. 3.



WITNESSES

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# UNITED STATES PATENT OFFICE.

WILLIAM SHEAD MASON, OF LA SALLE, ILLINOIS.

## NUT-LOCK.

No. 843,407.

Specification of Letters Patent.

Patented Feb. 5, 1907.

Application filed June 27, 1906. Serial No. 323,695.

*To all whom it may concern:*

Be it known that I, WILLIAM SHEAD MASON, a citizen of the United States, and a resident of La Salle, in the county of La Salle and State of Illinois, have invented a new and Improved Nut-Lock, of which the following is a full, clear, and exact description.

This invention relates to nut-locks.

The object of the invention is to provide a device of this character which may be employed with nuts of square, hexagonal, or other shape, and which is simple and strong in construction and inexpensive to manufacture.

A further object of the invention is to provide a nut-lock which will securely hold the nut upon the bolt against accidental displacement or loss, and which may easily and quickly be placed in position or removed.

The invention consists in the construction and combination of parts to be more fully described hereinafter and particularly pointed out in the claims.

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

Figure 1 is a top plan view of the nut-lock, showing the bolt in cross-section. Fig. 2 is a side elevation of the device, and Fig. 3 is a plan of a blank from which a part of the device is formed.

Referring more particularly to the drawings, my invention may be attached to a square nut 1, as shown in Fig. 1, or to a hexagonal or other nut, as desired, the form being such as to allow this. The bolt 3, which is threaded in the usual manner and to which the nut 1 is secured, is provided with a transverse bore for a purpose which will appear hereinafter. Fitting upon the nut 1 is a casing 4, which has substantially parallel sides 5, adapted to engage with opposite sides of the nut. The sides 5 are connected by opposite arched ends 6, preferably formed integral with the sides 5. The arched ends 6 extend laterally beyond the adjacent sides of the nut, as appears most clearly in Fig. 1. The opposite sides 5 are provided with lateral extensions 7, acting as fingers near the ends thereof, which are adapted to be inwardly disposed with reference to the casing and to be bent about the edges of the nut to secure the casing firmly thereto. It is understood that the casing is slidable with reference to

the nut, and for this reason it is easily placed upon the same or removed therefrom.

One side 5 of the casing has a downward lateral extension 8, which is provided with a slot 9, the edges of which are notched, as shown most clearly in Fig. 3. I provide a cotter-pin 10, having an enlarged head 11, said pin being adapted to pass through the slot 9 and to be inserted through the bore provided therefor in the bolt, the ends 12 of the pin projecting through said bore and being adapted to be laterally bent to hold said pin in said bore. The enlarged head of the pin prevents the same from completely penetrating the slot. It will be understood that the cotter-pin 10 may be located in a plurality of positions in the slot 9. Therefore it is not necessary for the bore in the bolt to register exactly with a single opening in the casing through which the cotter-pin may be inserted. As the casing is secured upon the nut by means of the fingers 7, and as at the same time it is secured to the bolt by means of the cotter-pin 10, it will be understood that the bolt and the nut will be retained substantially rigid with reference to each other and that it is not possible for the nut to be displaced from the bolt should the former accidentally become loosened. The casing 4 is preferably formed from a blank of sheet metal or similar material, as shown in Fig. 3, the blank being bent on the broken lines 13, 14, 15, and 16.

The slot formed in the extension 8 has opposite edges or sides formed in a series of curved notches 17, each series of curves alternating with the points or projections of the opposite series, those on either side of the slot or opening being disposed before and substantially centrally of the notches of the series opposite thereto. The portions of the blank which form the parallel sides 5 of the casing extend beyond the portions forming the arched ends and near the ends have slots 18, parallel with the longitudinal edges of the blank, which separate the portions 7 forming the fingers adapted to attach the casing to the nut. The ends of the blank which overlap in the completed casing are provided with suitable holes 19, through which rivets 20 are inserted to firmly secure the overlapping edges. The fingers 7 are normally substantially in the same plane with the sides 5 and 6. When the casing is slipped upon the nut and the cotter-pin placed in position, the fingers 7 will sometimes be found unneces-



sary to secure the casing to the nut, as the rigidity of the casing will be sufficient. By hammering or pressing the fingers inwardly around the edges of the nut and against adjacent faces of the nut the casing will be secured to the nut with additional rigidity and will be exceptionally secure against accidental displacement. An additional finger 20, adapted to be bent about an edge of the nut, may be formed in the blank in order more firmly to secure the casing to the nut. It will be understood that the slot 9 may be substituted by a series of separated openings to receive the cotter-pin.

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

1. A nut-lock, comprising a casing having substantially parallel sides for engaging opposite faces of the nut, and arched ends connecting said sides, said sides having lateral projections constituting fingers adapted to be

inwardly disposed about the edges of the nut and against the sides of the nut adjacent to the arched ends, whereby said casing is secured against displacement in a direction parallel to the sides, said casing having means to secure the same to the bolt. 25

2. A nut-lock, having a casing formed from a blank consisting of a strip of suitable material, having a lateral extension provided with a notched slot and lateral extensions on the side remote from the said first extension, said second extensions being adapted to act as fingers at the sides of the casing formed from the blank. 30 35

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

WILLIAM SHEAD MASON.

Witnesses:

MAE A. GEIB,  
N. B. POND.