

(No Model.)

T. D. JONES.  
NUT LOCK.

No. 502,195.

Patented July 25, 1893.

Fig I.

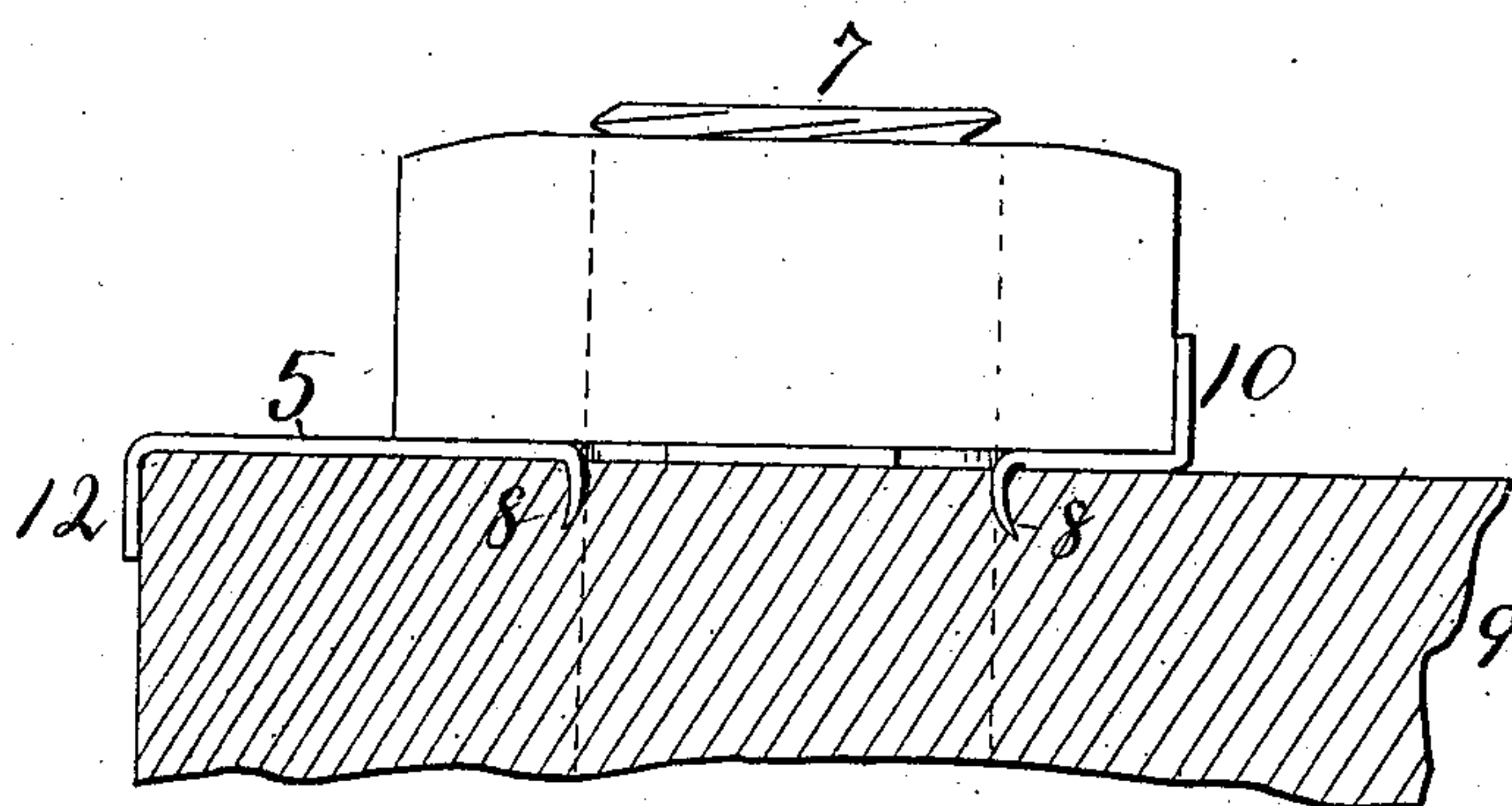
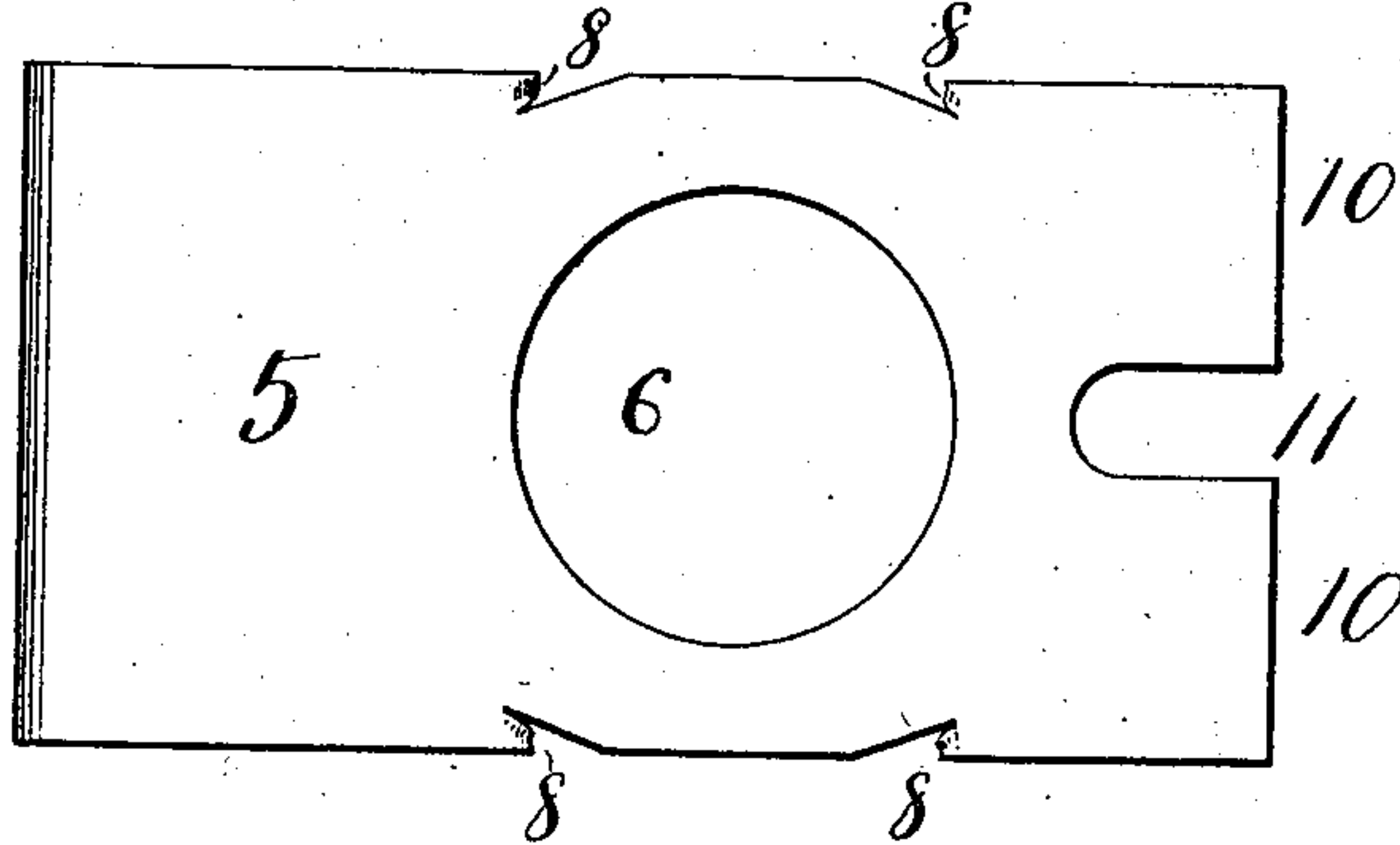


Fig II.



WITNESSES,

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# UNITED STATES PATENT OFFICE.

THOMAS D. JONES, OF CHICAGO, ILLINOIS, ASSIGNOR TO A. W. DREVES, A. S. OSGOOD, AND JOHN EARLY, OF SAME PLACE.

## NUT-LOCK.

SPECIFICATION forming part of Letters Patent No. 502,195, dated July 25, 1893.

Application filed April 19, 1893. Serial No. 471,005. (No model.)

*To all whom it may concern:*

Be it known that I, THOMAS D. JONES, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, 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 that class of nut locks which serve both as a base plate or washer for the nut to rest upon, and as a lock to prevent the nut from being worked loose in service, and the object is to adapt a plate to cling to the base upon which it rests when that base is of wood or similar penetrable material, and at the same time to prevent the nut from being turned on the plate when in service.

To this end my invention consists in a nut lock shaped as hereinafter described and claimed, reference being had to the accompanying drawings, in which—

Figure I, is a side elevation of a nut lock in service according to my invention, the base upon which it is placed being shown in a transverse vertical section, and Fig. II, is a plan or top view of one of my locks detached.

5 represents the body of my nut lock. It consists of a plate of metal cut into the desired form by the usual method of punching and shearing. A pole 6 is to be made a very little larger than the bolt 7 over which it fits loosely.

9 represents the wood or timber through which the bolt 7 passes and upon which the plate 5 is to rest.

8 represents claw-shaped spurs so sheared from the edges of the plate 5 as to make sharp points and project them downward beyond a right angle from the plane of the plate, leaving them set to hook outward in opposite directions. In service this plate is to be placed upon the bolt with the spurs against the wood, then the nut is to be screwed down thereon, forcing the spurs into the wood and pressing the plate very firmly home upon the wood. The spurs being thus forced into the wood crowd the fibers of the wood back out of their way then after the points have passed in the fibers contract or spring back behind

them thus causing each spur to act as a hook, and the two spurs at each side of the plate may be termed a pair facing in opposite directions. With this style of spurs the plate will be firmly held to the wood, no matter how much the same shall shrink, and this hooking feature of the spurs is the main characteristic of my invention. After the nut is screwed home upon the plate the end 10 of the plate may be bent up against the nut, and by being hammered a little the material will take a set so as to hold the nut tightly. In the end of the plate I make a nick 11 dividing the end into two portions which may be turned up one at a time to be more readily fitted to the side of the nut, and in some cases I may provide the plate with a lip 12 to project over the edge of the timber to further assist in keeping the plate in place. I prefer to use decarbonized steel to make these plates of because that material may be bent to and fro a great many times without being broken off, and yet every time it is hammered up close to the side of the nut it has stiffness enough to faithfully perform its service of keeping the nut from turning. By this means one nut lock is adapted to be used a great many times, the oppositely directed hook-shaped spurs holding the plate firmly to the wood even though the nut be removed.

Having thus fully described my invention, what I believe to be new, and desire to secure by Letters Patent, is the following:

1. In a nut-lock, a plate of sheet metal perforated to receive a bolt, and having at each of two edges a pair of oppositely pointing hook-shaped spurs to engage a penetrable base, and further having a portion to be bent against the side of a nut placed upon the plate to lock the same, substantially as described.

2. In a nut-lock, a plate of sheet metal adapted to receive a bolt and to hold a nut placed thereon and provided at two of its edges with oppositely pointing hook-shaped spurs, substantially as described.

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

THOMAS D. JONES.

Witnesses:

W. X. STEVENS,  
M. C. HILLYARD.