

A. H. STEPHENS.
NUT LOCK.

APPLICATION FILED NOV. 18, 1909.

986,778.

Patented Mar. 14, 1911.

Fig. 1.

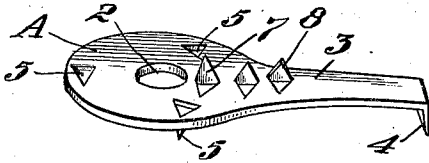


Fig. 2.

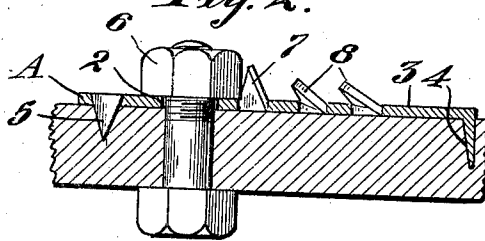


Fig. 3.

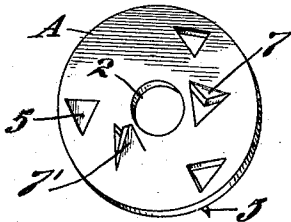
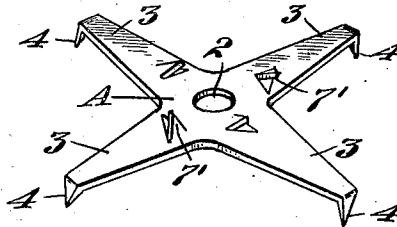


Fig. 4.



Witnesses;

O. S. Berry,

A. E. Maguire,

Inventor

Alexander H. Stephens

By G. H. Strong,

His Attorney.

UNITED STATES PATENT OFFICE.

ALEXANDER H. STEPHENS, OF OAKLAND, CALIFORNIA.

NUT-LOCK.

986,778.

Specification of Letters Patent.

Patented Mar. 14, 1911.

Application filed November 18, 1909. Serial No. 528,646.

To all whom it may concern:

Be it known that I, ALEXANDER H. STEPHENS, citizen of the United States, residing at Oakland, in the county of Alameda and State of California, have invented new and useful Improvements in Nut-Locks, of which the following is a specification.

My invention relates to nut-locks.

The object of the invention is to provide a simple, cheap, practical combined washer and nut-lock which will be applicable to nuts of various sizes.

The invention consists of the parts and the construction and combination of parts as hereinafter more fully described and claimed, having reference to the accompanying drawing, in which—

Figures 1, 3, and 4 are perspective views of different forms of the invention. Fig. 2 is a section on the device of Fig. 1.

Referring to Fig. 1, A is a metal plate shown in the form of a washer provided with a hole 2 to pass the bolt, and having a laterally extending arm 3 with a bent spur 4 to be driven into the wood for anchorage purposes. Stamped out of the body of the washer portion of the plate are spurs 5 pointing inwardly in the same direction the spur 4 points and serving the double purpose of securing the plate or washer against turning; these spurs 5 being forced into the wood as the nut is screwed down. The spurs 4 are driven into the wood by a separate blow of a hammer or the like on the arm 3. The locking of the nut, represented at 6, against turning is effected by a series of outwardly bent spring tangs 7 which lie contiguous to the sides of the nut, but are pointed in the direction that the nut turns when being screwed on to the bolt; the corners

of the nut riding over these projections 7 as the nut is screwed on, but being easily bent up alongside the nut when the latter stands with its sides parallel to the adjacent edge of the tang 7 and serving to prevent the nut being turned backwardly, or coming off. The arm 3 may be provided with additional prongs 8 positioned at different distances from the center of the washer and adapted to coact as a nut-lock with nuts of different sizes. Thus it will be seen that this single simple locking device will securely lock nuts varying considerably in size.

Under some circumstances it may be preferred to omit the arm 3, as shown in Fig. 3; and under other circumstances it may be preferred to use a plurality of arms, as in Fig. 4, with locking projections 7' arranged at different distances from the center of the plate.

Having thus described my invention, what I claim and desire to secure by Letters Patent is—

A nut lock consisting of a metallic plate perforated to pass the bolt, said plate having a laterally extending arm with a spur at its end, and a plurality of spring tang members arranged at different distances radially of the bolt and all projecting outwardly from the same face of the plate, and over which projections a nut may ride when the nut is being screwed on to the bolt and which will prevent the reverse action of the nut.

In testimony whereof I have hereunto set my hand in the presence of two subscribing witnesses.

ALEXANDER H. STEPHENS.

Witnesses:

EDW. MCGRATH,
DANIEL J. HICKEY.