

(No Model.)

H. PICK.
NUT LOCK.

No. 418,586.

Patented Dec. 31, 1889.

Fig. 1

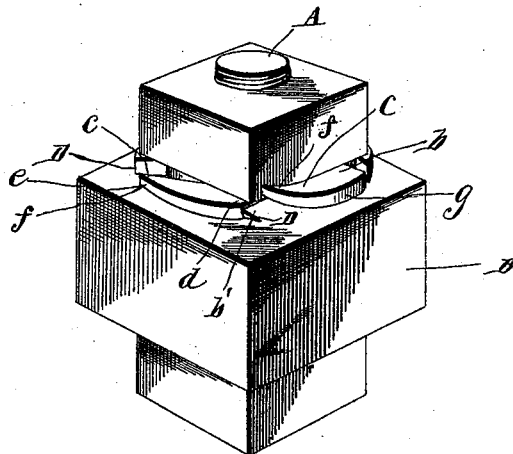


Fig. 2

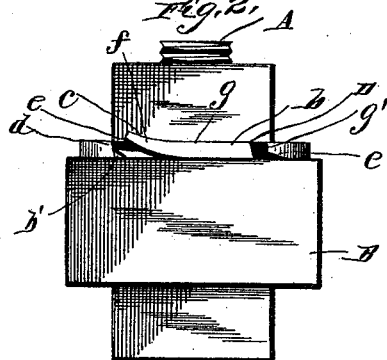
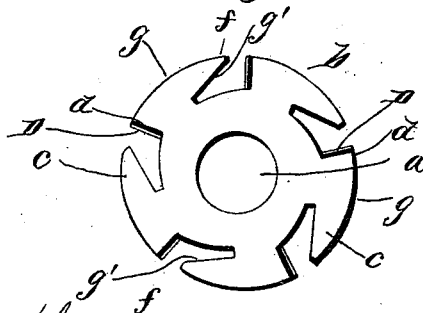


Fig. 3



WITNESSES

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HENRY PICK, OF MARENGO, IOWA.

NUT-LOCK.

SPECIFICATION forming part of Letters Patent No. 418,586, dated December 31, 1889.

Application filed November 17, 1888. Serial No. 291,090. (No model.)

To all whom it may concern:

Be it known that I, HENRY PICK, a citizen of the United States, residing at Marengo, in the county of Iowa and State of Iowa, have
5 invented certain new and useful Improvements in Nut-Locks and Washers; and I do 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
10 it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

15 This invention relates to nut-locks, and has for its object to provide a simple and compact device for locking the nut, and which can be readily detached and used repeatedly.

The improvement consists of a washer having a series of wings about its periphery, which wings have their front ends straight and beveled to form chisel-edges on the lower side of the washer, and which have their rear ends tapering, the outer edges of the wings
25 curving and their inner edges being straight and arranged tangentially to the periphery of the washer. The tapering ends of the wings are adapted to be turned up against the edge of the nut and hold it from turning
30 back. To facilitate the operation of turning the wings and admit of an instrument, as a cold-chisel, between the ends of the wings and the plate against which the washer bears, the ends of the said wings may be beveled
35 upward on their under side, or they may be made without such bevel.

The improvement consists of the novel features, which will be hereinafter more fully described and claimed.

40 In the drawings, Figure 1 is a perspective view showing the application of my invention; Fig. 2, an edge view, and Fig. 3 a top plan view of the washer.

The washer *b* is centrally perforated at *a*, to be slipped on the bolt, and is provided with a series of wings *c*. The front ends *d* of the wings are straight and form prolongations of the radii of the washer, and are beveled downwardly to form the chisel-edges *D*, which catch into the surface of the plate
50 against which the washer is placed and hold it against turning back. The rear ends *f* of the wings taper, and have their inner edges

g' straight and tangent to the periphery of the washer, and their outer edges *g* curved 55 and parallel with the periphery of the said washer. The ends of the wings may be beveled upward on their under side at *e*, to admit of the ready insertion of an instrument beneath them to pry them up, or they may 60 be made without such bevel.

In practice the washer, which is preferably of malleable iron, is slipped on the bolt *A* and rests against the plate *B*. The nut is screwed home and is held from turning back 65 by bending up one of the wings, so its inner edge will bear against the edge of the nut. By having a series or plurality of wings the inner edge of some one of them will register with a side of the nut and can be made to 70 bear against the said side of the nut by bending up the wing. Where the plate *B* is metal a notch can be made therein to form the projection *b* for the end *d* of one of the wings to impinge against to guard against any possible slipping of the washer. 75

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

1. As an improved article of manufacture, 80 the hereinbefore-described nut-lock washer centrally perforated, and having a series of independent wings about its periphery, the front ends of the wings being straight and beveled to a chisel-edge, and having their 85 rear ends tapering on their under side, the inner edges of the wings being straight and tangent to the periphery of the washer, and the outer edges of the wings being curved and parallel with the said periphery of the 90 washer.

2. The herein-described nut-lock washer, having a series of wings *C*, which have their front ends beveled down to a chisel-edge to catch into the plate against which the washer 95 is placed, and having their rear ends adapted to be turned up against the edge of the nut, substantially as and for the purpose described.

In testimony whereof I affix my signature 100 in presence of two witnesses.

HENRY PICK.

Witnesses:

MARSH T. BEENE,
J. T. BEENE.