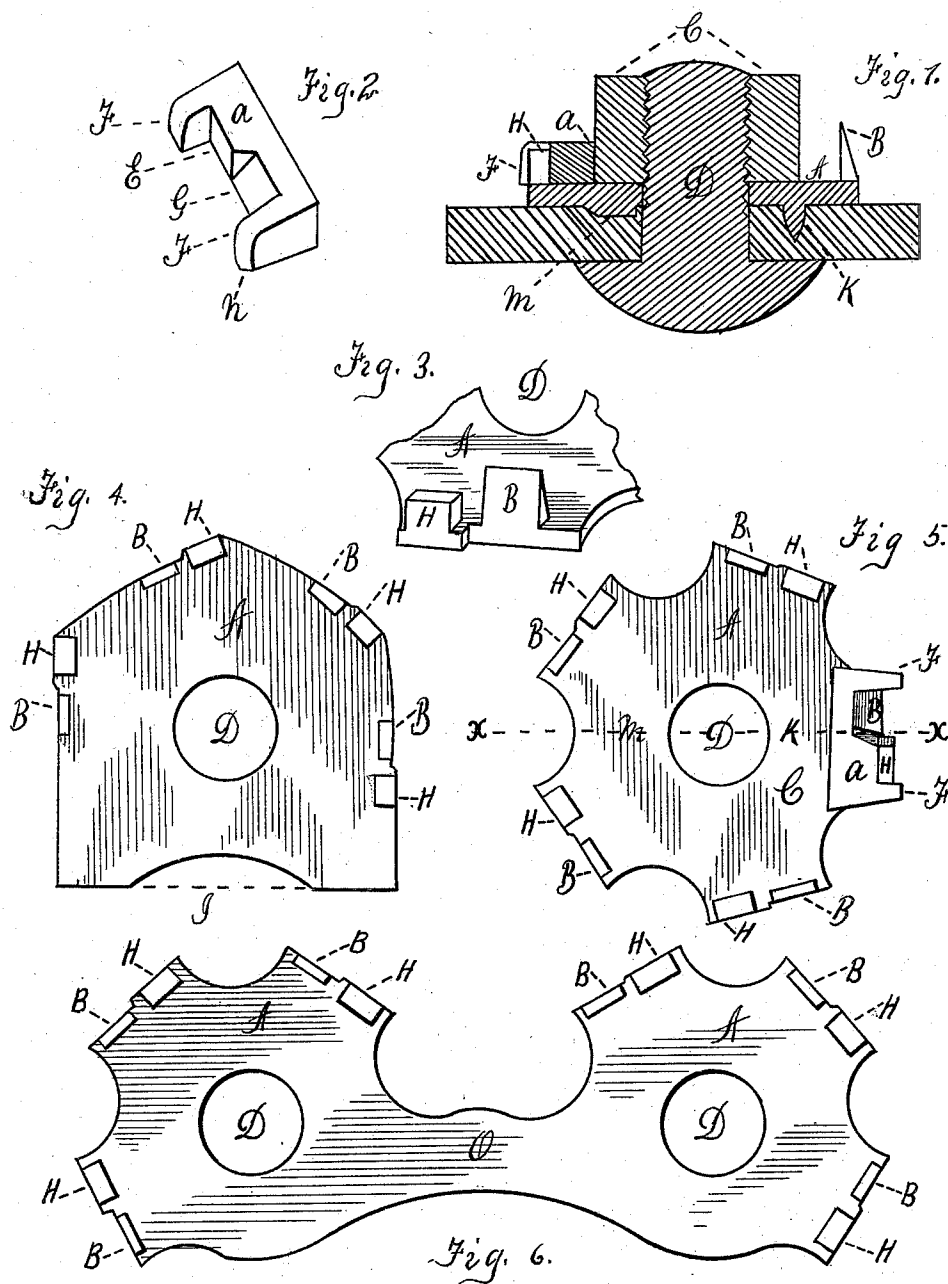


(No Model.)

T. MARTIN.
NUT LOCK.

No. 505,365.

Patented Sept. 19, 1893.



Witnesses
Charles B. Jackson
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UNITED STATES PATENT OFFICE.

THEODORE MARTIN, OF WALLACEBURG, CANADA.

NUT-LOCK.

SPECIFICATION forming part of Letters Patent No. 505,365, dated September 19, 1893.

Application filed September 28, 1892. Serial No. 447,154. (No model.) Patented in Canada August 11, 1892, No. 39,784.

To all whom it may concern:

Be it known that I, THEODORE MARTIN, a subject of the Queen of Great Britain and Ireland, residing at Wallaceburg, in the county of Kent and Province of Ontario, Canada, have invented a certain new and useful Device for Locking Nuts, (for which I have obtained a patent in Canada, No. 39,784, bearing date August 11, 1892,) for which the following is a specification, reference being had therein to the accompanying drawings.

This invention relates generally to nut locks and particularly to that class thereof known as side key nut locks.

The objects of my invention are first to provide a device which can lock a nut in a number of different positions and either on the square or bias, and secondly, to provide a device in which the locking key will be securely held against displacement.

My invention therefore consists in a base washer having a series of projections arranged in pairs about its edges, and a locking key adapted to rest between the nut and the above mentioned projections, one of which is intended to hold the key against displacement while the other is intended to be bent down upon the key to hold it against the nut.

My invention consists also in certain details of construction and combination of parts all of which will be fully described hereinafter and pointed out in the claims.

In the drawings forming a part of this specification—Figure 1 is a vertical sectional view of my improved nut lock as applied and used. Fig. 2 is a detail view of the key detached. Fig. 3 is a view of a portion of a washer showing the projection thereon. Fig. 4 is a plan view of a washer, having a flat face to rest upon the base of a rail. Fig. 5 is a plan view of another form of washer, and Fig. 6 shows a compound washer for locking two nuts.

Referring to the drawings D indicates the bolt and C the nut both of which are of the usual construction and the nut may be square or hexagonal as desired. A washer A is arranged beneath the nut C said washer being made of malleable iron and formed with upwardly projecting lugs B B at definite points

about its periphery. Adjacent to each lug B, is a cubical boss H, said boss being of less height than the lugs B as clearly shown, and the boss is also much thicker. A locking key *a* is adapted to be placed between a lug and boss and one side of the nut C to hold said nut in place. The key *a* is constructed with projecting arms F F, to embrace the lug B and boss H, and it is also formed with a rectangular seat E to receive the boss, and an inclined portion G, into which the lug B is forced to bind the key tightly against the side of the nut. The boss H which fits the seat E is intended to hold the key from longitudinal movement and thus keep it always in its proper place. It will thus be seen that I securely bind the key against the nut and also hold said key from any movement whatever. It will also be seen that by having a plurality of lugs and bosses arranged in pairs I can lock the nut either when turned down square or on the bias, and by means of the lock shown in Fig. 6 I am enabled to lock a pair of nuts which secure the fish plates of two meeting rails. The washer may also be formed with bottom protuberances if desired which are set into the base plate and thus hold the washer against rotation. When it is desired to release the nut, the lug B is bent back, the key removed and the nut turned off.

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

1. In a nut lock the combination with the nut and bolt, of a washer, having a series of vertically projecting lugs upon its edge, and a key having arms at each end and an inclined portion between the arms upon which the lug is bent down substantially as shown and described.

2. In a nut lock the combination with the bolt and nut of a washer having a series of lugs and bosses arranged in pairs and a key having arms, an inclined portion and an angular seat to receive the boss substantially as shown and described.

THEODORE MARTIN.

Witnesses:

C. B. JACKSON,
HARRY MARTIN.