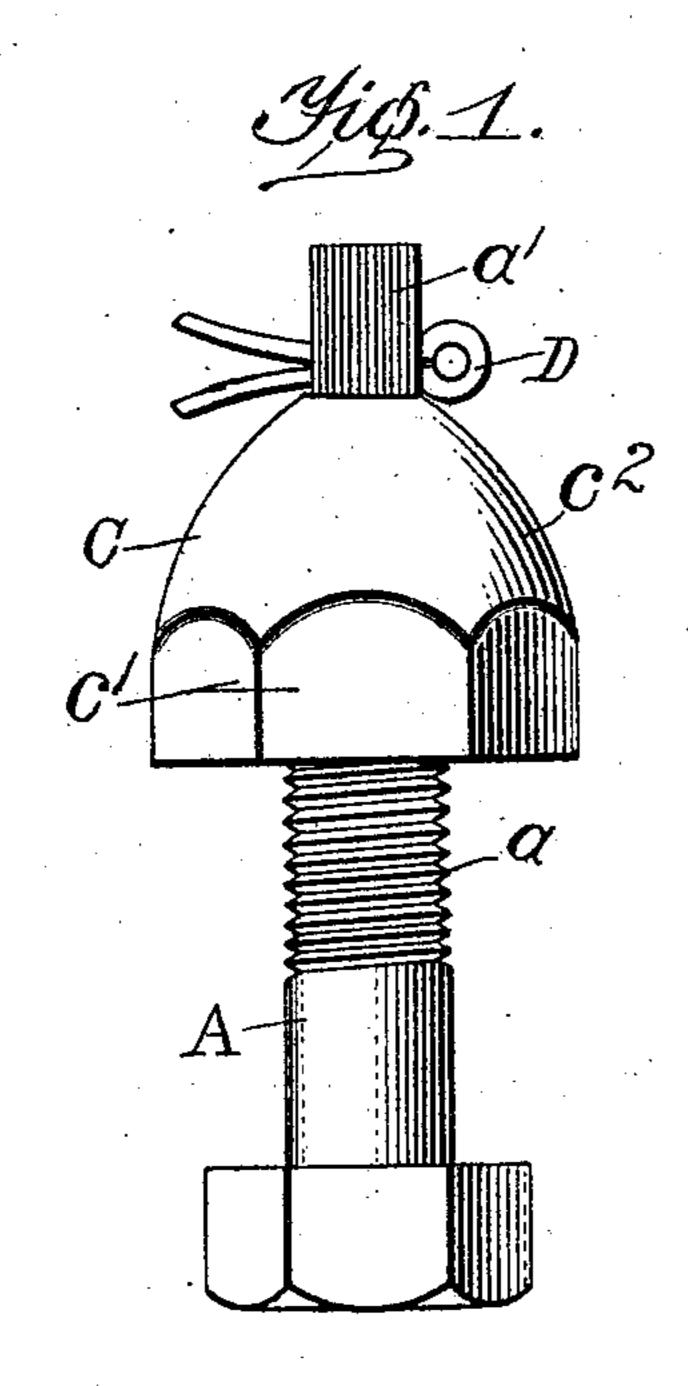
PATENTED MAR. 19, 1907.

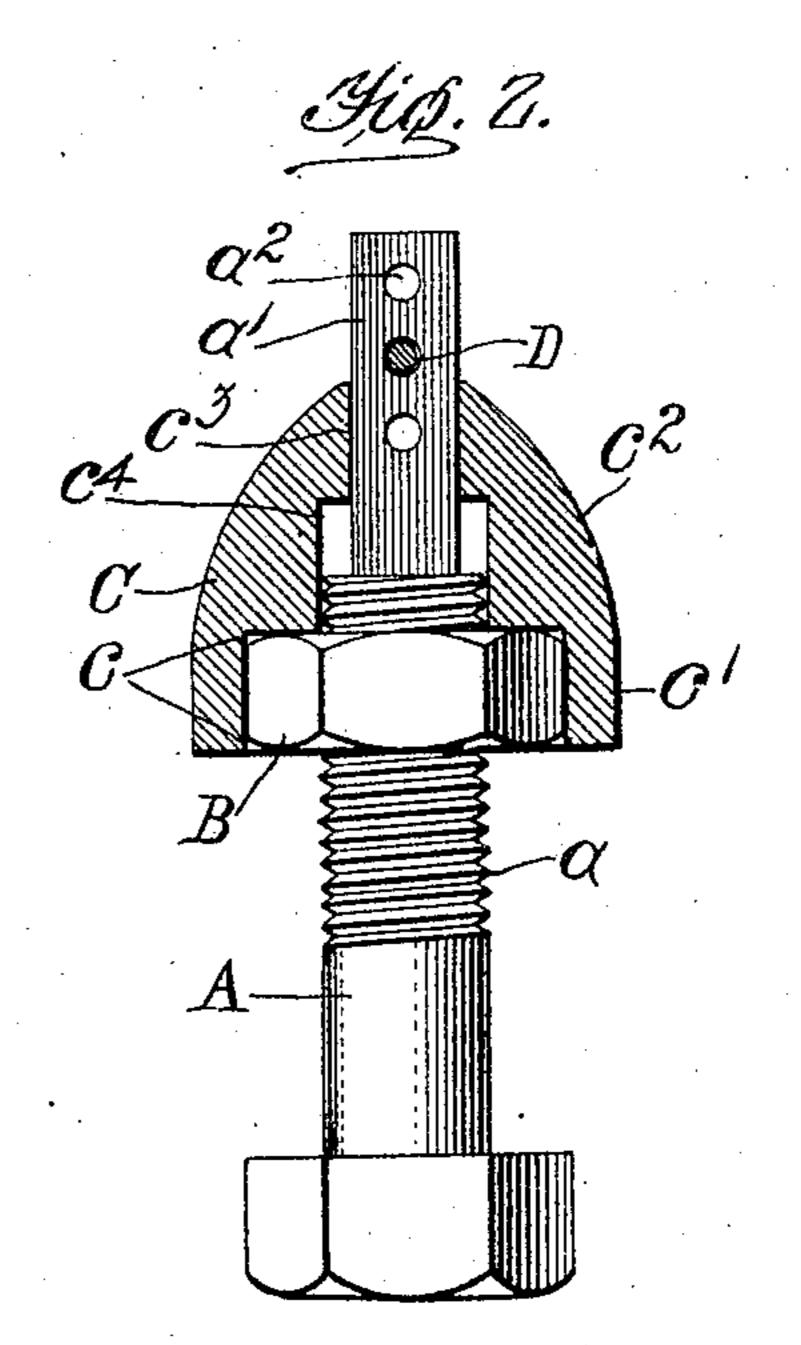
No. 847,322.

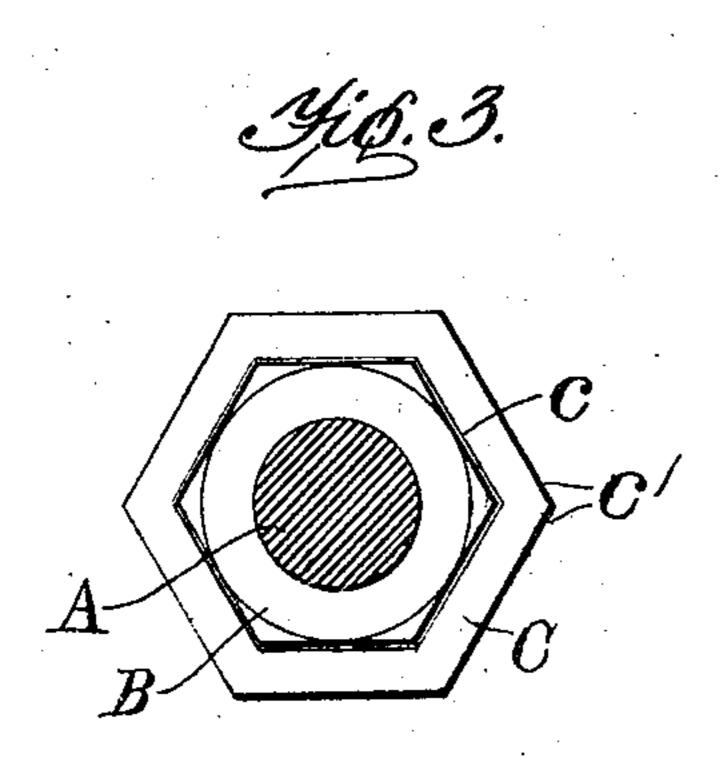
H. DAY.

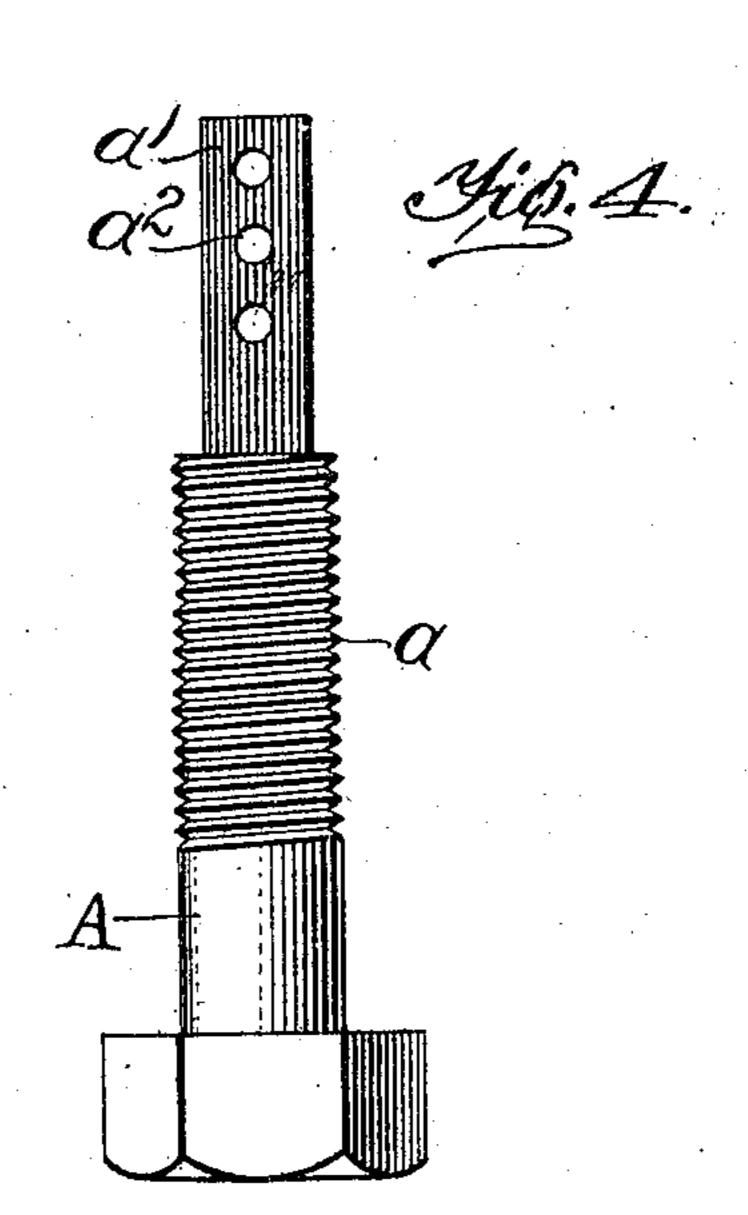
NUT LOCK.

APPLICATION FILED MAY 28, 1906.









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NITED STATES PATENT OFFICE.

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NUT-LOCK.

No. 847,322.

Specification of Letters Patent.

Patented March 19, 1907.

Application filed May 28, 1906. Serial No. 319,067.

To all whom it may concern:

of the United States, residing at Upper San- The cap which locks the nut is referred to by dusky, in the county of Wyandot and State 5 of Ohio, have invented certain new and useful Improvements in Nut-Locks, of which the following is a specification.

My invention relates to nut-locks, and belongs to that particular type of devices designed for securing the nut upon a bolt or screw against accidental displacement, while permitting the ready removal of the nut by

hand, if desired.

It is the object of my invention to produce 15 a nut-lock having special formation and arrangement whereby it is believed great strength and security results and which by reason of its special formation and arrangement may be exposed to weather conditions, 20 however inclement and for whatever period of time, without impairing either the strength or security of the fastening. Fur-25 tions are more or less affected by long ex- | size as to fit movable the squared end a' of posure to wet and dry atmospheric surround- the bolt. ings, and especially in situations open to fly- Necessarily the squared end a' of bolt A ing dust are rendered oftentimes difficult of is smaller in cross-section than the thread-30 quently in my personal experience it has cap C fits and admits only the squared end a'. nuts from bolts which have long occupied pouse of my invention I have found that even 35 after such long-continued subjection to severe weather and to dust and grit, which is always flying about and steadily accumulates upon the fastening, there is comparatively no trouble met with when it is desired 40 for any reason to detach the lock and nut from the end and threads of the bolt.

The particular construction and arrangement constituting my said invention is set, manner. Now it is believed to be shown out in the accompanying drawings, of

45 which side view showing the cap in vertical section. Fig. 3 is a bottom plan view of the cap about. the nut, a cross-section of the bolt being also 50 shown. Fig. 4 is a side view of the end of the bolt with the cap omitted.

In these drawings and this description like l etters refer to the same parts throughout.

Considering the drawings, the letter A des-5 5 ignates the bolt, having the threaded portion a and a squared end a', pierced by one or

more transverse holes a^2 . The nut engaging Be it known that I, Harry Day, a citizen the threaded portion of the bolt is marked B. the letter C, and the cotter, which passes 60 through one or the other of the holes a^2 and prevents the cap from slipping off the bolt in the direction of the length of the bolt, is des-

ignated by letter D.

The particular construction of the cap, 65 which constitutes an essential feature of my invention, comprises a mouth c, corresponding in shape to the nut. For example, in the drawings I have illustrated a hexagonal nut, and the mouth c of the cap is therefore of that 7° shape. It will be here observed that the outer walls of the cap near the mouth and referred to by the characters c' correspond to the sides of the mouth of the cap in number and position. The outer walls c' will be 75 again mentioned.

Cap C has the conoidal upper portion c^2 , which form enables it to be made very strong thermore, in the majority of nut-locking de- and heavy, if desired. Passing through the vices with which I am familiar the constructage apex is the square throat c^3 , that is of such 80

detachment and removal when desired. Fre- ed portion a of the bolt, and the throat c³ of 85 been practically impossible to remove the It will be understood that in order to permit cap C to move up and down on the bolt the sitions in the open air uncovered. By the additional cavity or passage c^4 is provided to receive the threaded portion of bolt A, as 90 best shown in Fig. 2. Without the additional cavity the cap could not be adjusted along the bolt following nut B.

To describe the operation of my invention, let it be assumed that the nut has been set up 95 as far as desired and the cap placed over it and the cotter passed through the nearest of the holes a' and spread in the ordinary that the cap cannot be accidentally rotated, 100 and that being the case the nut can neither Figure 1 represents a side view. Fig. 2 is a become displaced in any direction. Supposing that from long occupation of its place without detachment or removal there is any accumulation of rust or dirt upon the fasten- 105 ing, it might become so incrusted as to hide the junctions of the parts entirely. It is found that by placing the wrench upon the exterior walls c' of the cap and by working it back and forth a few times the whole thing is fully loosened and is thereafter readily detached.

Having now described my invention and explained the mode of its operation, what I claim is—

In a nut-lock, the combination with a bolt having a squared end and a threaded portion, the squared end of the bolt having a number of transverse holes, of a nut engaging the threaded portion of the bolt, a cap having formed through the top thereof a throat movably fitting the squared end of the bolt, the said cap having a mouth formed to movably fit the said nut, the said cap having also an additional cavity opening into the

said throat and mouth and constructed to receive the threaded portion of the bolt, and a 15 pin adapted to be passed through either of the holes in the said squared end of the bolt to retain the cap and lock the nut, substantially as described.

In testimony whereof I affix my signature 20 in presence of two witnesses.

HARRY DAY.

Witnesses:

T. J. LAUKER, J. C. WEAVER.