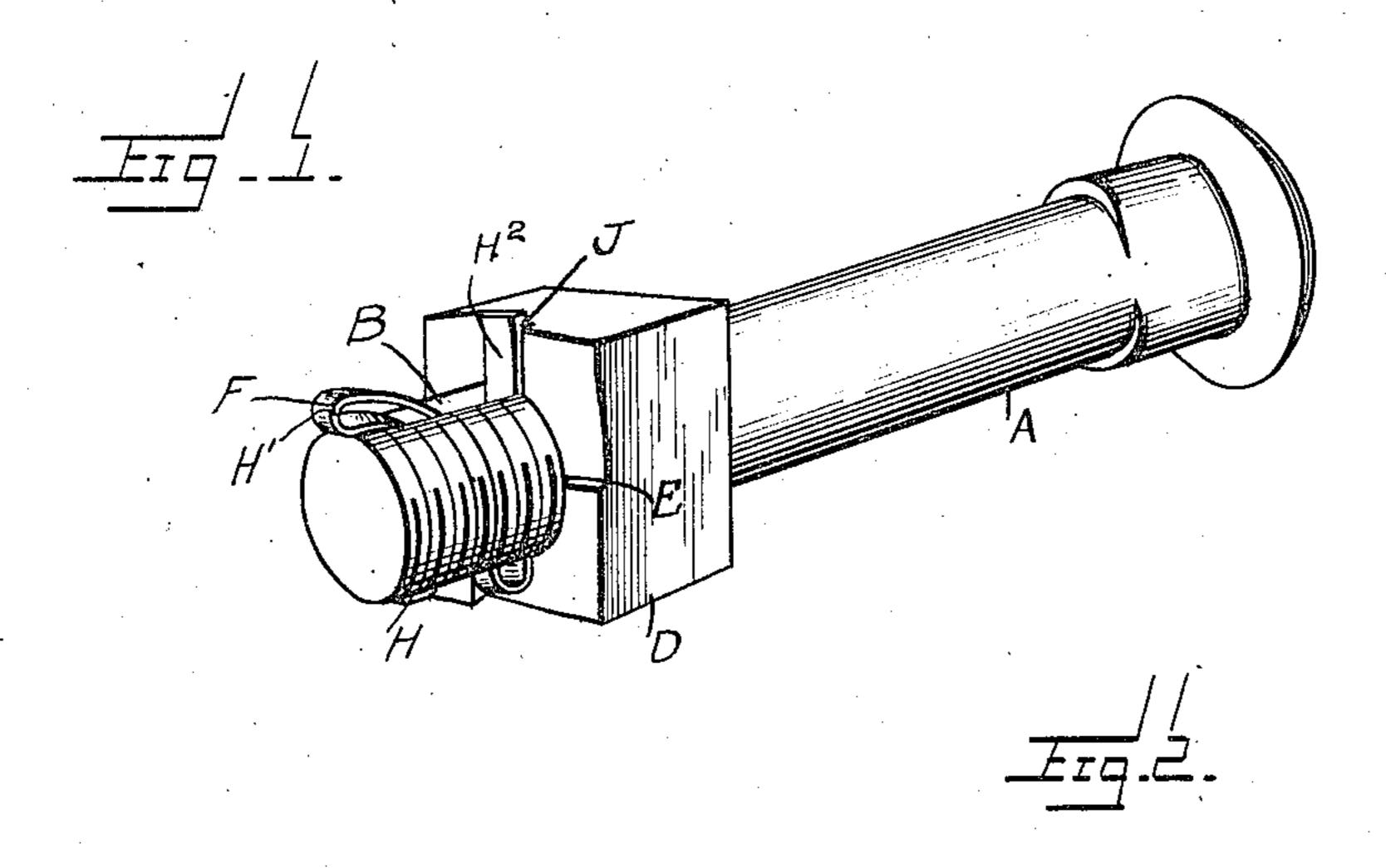
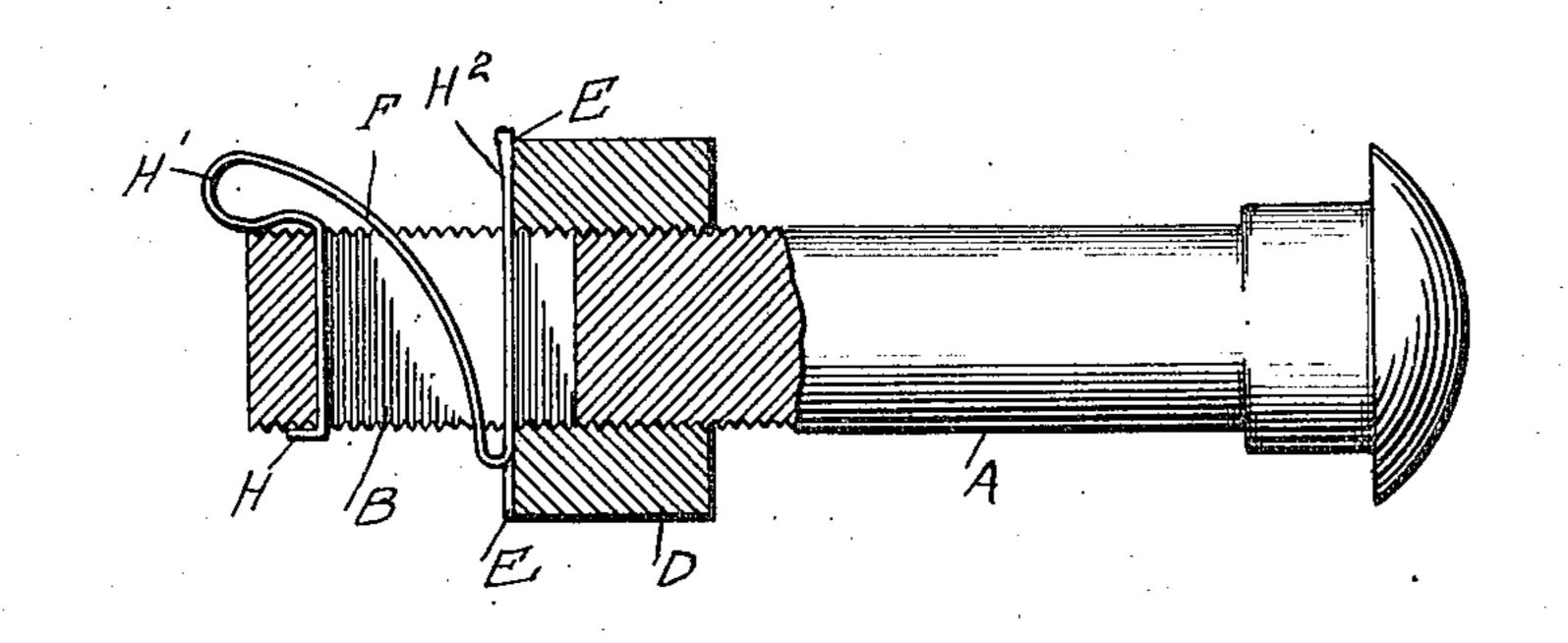
R. COOPER. NUT LOCK.

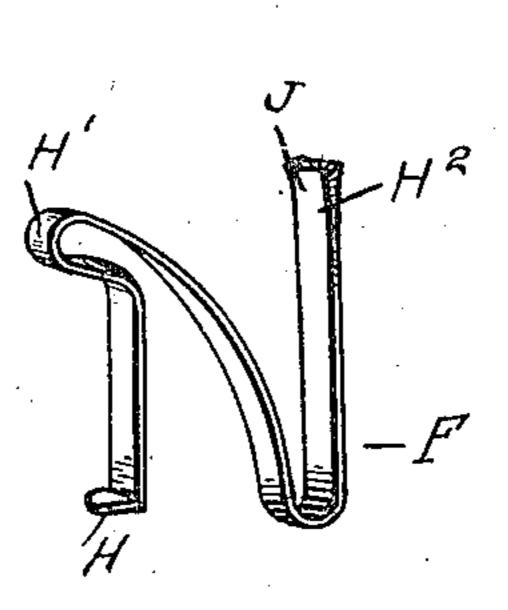
APPLICATION FILED SEPT. 7, 1910

975,605.

Patented Nov. 15, 1910.







WITNESSES:

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Robert Cooper Teaux Lin H. Houg 2 Attorney

UNITED STATES PATENT OFFICE.

ROBERT COOPER, OF CHICAGO, ILLINOIS.

975,605.

Specification of Letters Patent.

Patented Nov. 15, 1910.

Application filed September 7, 1910. Serial No. 530,875.

To all whom it may concern:

Be it known that I, Robert Cooper, a subject of the King of England, residing at Chicago, in the county of Cook and State of 5 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 10 to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters and figures of reference marked thereon, which form a part of this specification.

This invention relates to new and useful 15 improvements in nut and bolt locks and comprises a simple and efficient device of this nature consisting of a slotted bolt with a resilient member passing through the slot 20 of the bolt and adapted to engage ratchet

teeth upon a nut.

The invention comprises various details of construction and combinations and arrangements of parts which will be herein-25 after fully described and then specifically defined in the appended claim.

I illustrate my invention in the accompa-

nying drawings, in which:—

Figure 1 is a perspective view of the de-30 vice showing the nut and bolt locked together. Fig. 2 is a longitudinal sectional view, and Fig. 3 is a detailed view of the

resilient locking member.

Reference now being had to the details of 35 the drawings by letter, A designates a bolt having a longitudinal slot B therein and is threaded in the usual manner. A nut D is interiorly threaded and fits the bolt and has a series of ratchet teeth E upon its outer face. A resilient member or spring, designated by letter F, a detail of which is shown in the drawings, has one end H bent at an angle and is adapted to engage over the marginal edge of the slot, as shown in the 45 sectional view of the drawings, while another portion H' is bowed and engages the edge of the opposite slit, while the shank

portion of the spring is diagonally disposed and has a flat end H2 adapted to engage one or another of the ratchet teeth. The inner 50 end of the spring is preferably enlarged, as

shown at J.

In applying the device, the nut is screwed on until the ratchet is several threads below the end of the slot F in the bolt, after which 55 the spring is contracted so that the portion having an angled end is contracted and the hooked end engaged over the slot. Afterward, by pressing down upon the bowed portion, the device may be pushed in place 60 and the spring, when it contracts, assuming the position shown in the drawings. The marginal edge of the spring engaging the ratchet teeth will serve to hold the same from loosening. When it is desired to meve 65 the nut, the spring may be held out of the path of the ratchet teeth and the nut allowed to turn.

While I have shown my device as made of a flat spring material, it will be understood 70 that wire may be used equally as well.

By having the end of the spring widened or tapering as shown, means is provided for preventing the spring from pulling through the slot in the bolt.

What I claim to be new is:—

A nut lock comprising a bolt having a longitudinal slot therein, a nut mounted upon the threaded bolt and having ratchet teeth in the face thereof, a spring having one end 80 bent at an angle engaging over one marginal edge of the slot and bent to form a bowed portion engaging the other marginal edge of the slot, a portion of the spring extending diagonally through the slot and bent upon 85 itself forming a flat portion engaging the ratchet teeth.

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

ROBERT COOPER.

Witnesses:

HENRY J. HENN, G. H. KNOPP.