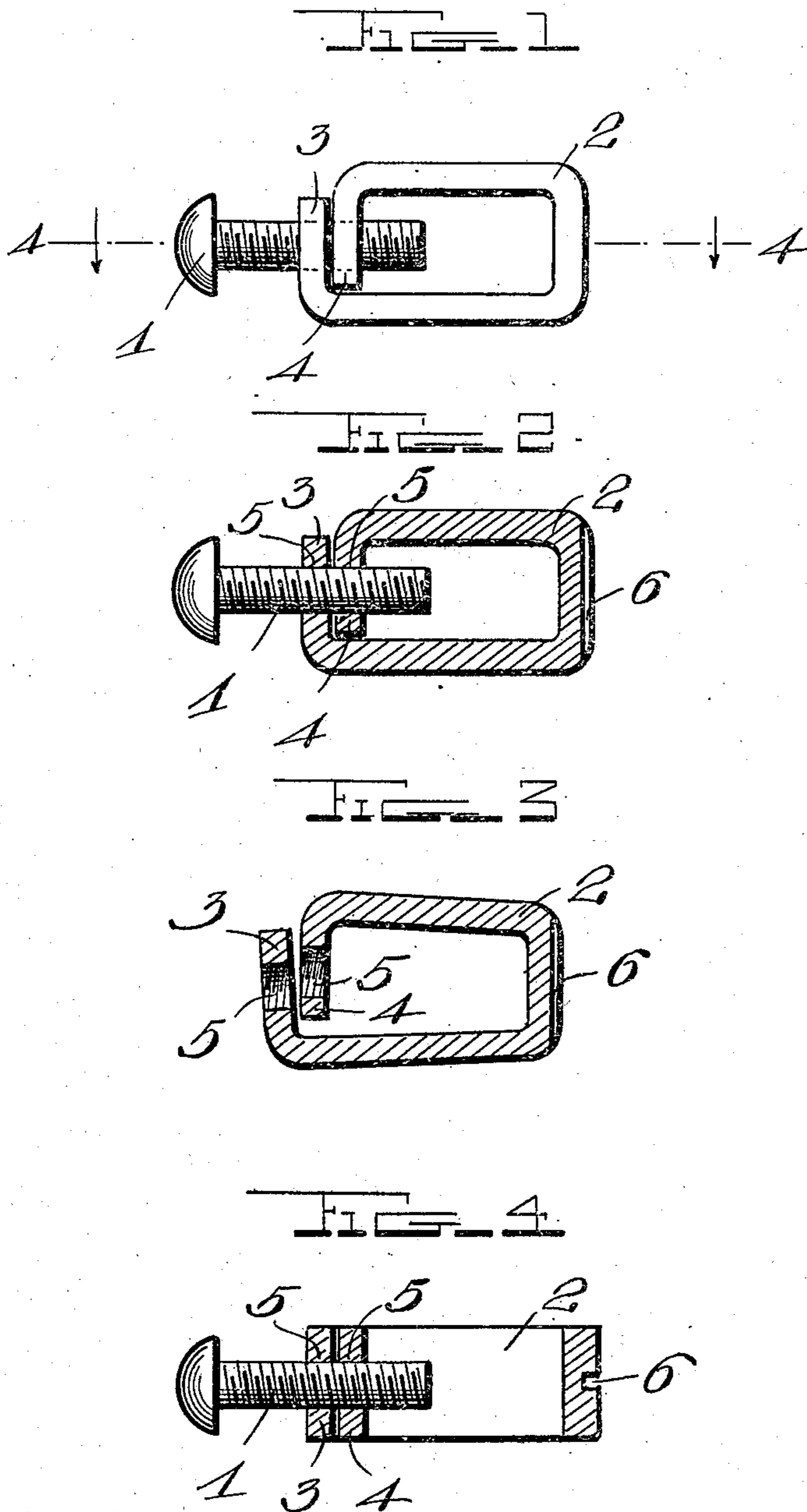


W. C. SCHOELKOPF.
 SPRING NUT.
 APPLICATION FILED AUG. 19, 1909.

956,185.

Patented Apr. 26, 1910.



Witnesses

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UNITED STATES PATENT OFFICE.

WILLIAM C. SCHOELKOPF, OF MADISON, WISCONSIN.

SPRING-NUT.

956,185.

Specification of Letters Patent. Patented Apr. 26, 1910.

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To all whom it may concern:

Be it known that I, WILLIAM C. SCHOELKOPF, a citizen of the United States, residing at Madison, in the county of Dane and State of Wisconsin, have invented certain new and useful Improvements in Spring-Nuts; 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 it appertains to make and use the same.

My invention relates to bolt nuts and particularly to that type which are adapted to lock upon the bolt to which they are applied.

Heretofore, it has been found necessary to provide some means carried by the nut or bolt for locking the nut upon the bolt and this has not only led to additional expense which has been almost prohibitive, but the majority of them have been ineffective and without merit.

It is the object of this invention to obviate these difficulties and to provide a nut, which, when applied to the bolt will automatically of itself lock in engagement with the bolt, so as to prevent its accidental removal by jarring or straining.

A further object of the invention is to provide a nut whose inherent characteristic is to lock upon the bolt to which it is applied.

With these and other objects in view, the invention consists of certain novel features of construction, combination and arrangement of parts as will be more fully described and particularly pointed out in the appended claim.

In the drawings, Figure 1 is a side elevation of a bolt having one of my improved nuts applied; Fig. 2 is a longitudinal sectional view thereof; Fig. 3 is a longitudinal sectional view of the nut removed from the bolt with the separation of the apertures shown slightly exaggerated, to better illustrate its function; and Fig. 4 is a longitudinal section taken at right angles to that of Fig. 2.

Referring more especially to the drawings, 1 represents a bolt and 2 the nut which is applied thereto. The nut 2 comprises a rectangular-shaped body with open overlapping parallel ends 3 and 4, the former lying over the latter and both provided with a threaded aperture 5, for the reception of the bolt 1. The lower end or connecting

portion of the side members is provided with a kerf 6, which is adapted to be engaged by a screw-driver so that the nut may be manipulated in this manner.

It will be noticed that under normal conditions, before the bolt has been applied, the threaded apertures are offset from one another so that it is necessary, in order to apply the bolt, to spring them into alignment as is shown in Fig. 2. When the bolt is seated in the apertures, its threaded end is protected within the rectangular nut so that it cannot be marred and thereby prevent or render difficult the disengagement of the nut from the bolt. If the sides of the nut are squeezed within a pair of pliers, the operation of removing the nut will be rendered considerably easier, but although the inherent tendency of the nut is to draw the apertures out of alinement and to thereby clamp the sides of the bolt, it will be found that the bolt may be removed by exerting considerable force and without squeezing the sides of the nut. This may be done only when power is applied to the head of the bolt either by a wrench or a screw driver, the tension exerted by the nut upon the bolt serving to hold the parts in adjusted position against all loosening tendencies caused by vibration or otherwise.

From the foregoing description, taken in connection with the accompanying drawings, the construction and operation of the invention will be readily understood without requiring a more extended explanation.

Various changes in the form, proportion and the minor details of construction may be resorted to without departing from the principle or sacrificing any of the advantages of this invention as defined in the appended claims.

Having thus described my invention, what I claim is:—

A bolt nut comprising an open loop, parallel open overlapping ends on said loop having threaded apertures therein, said body having sufficient inherent resiliency to normally throw said apertures in the parallel ends out of alinement.

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

WILLIAM C. SCHOELKOPF.

Witnesses:

ALICE GALLAGHER,
EMERSON ELA.