

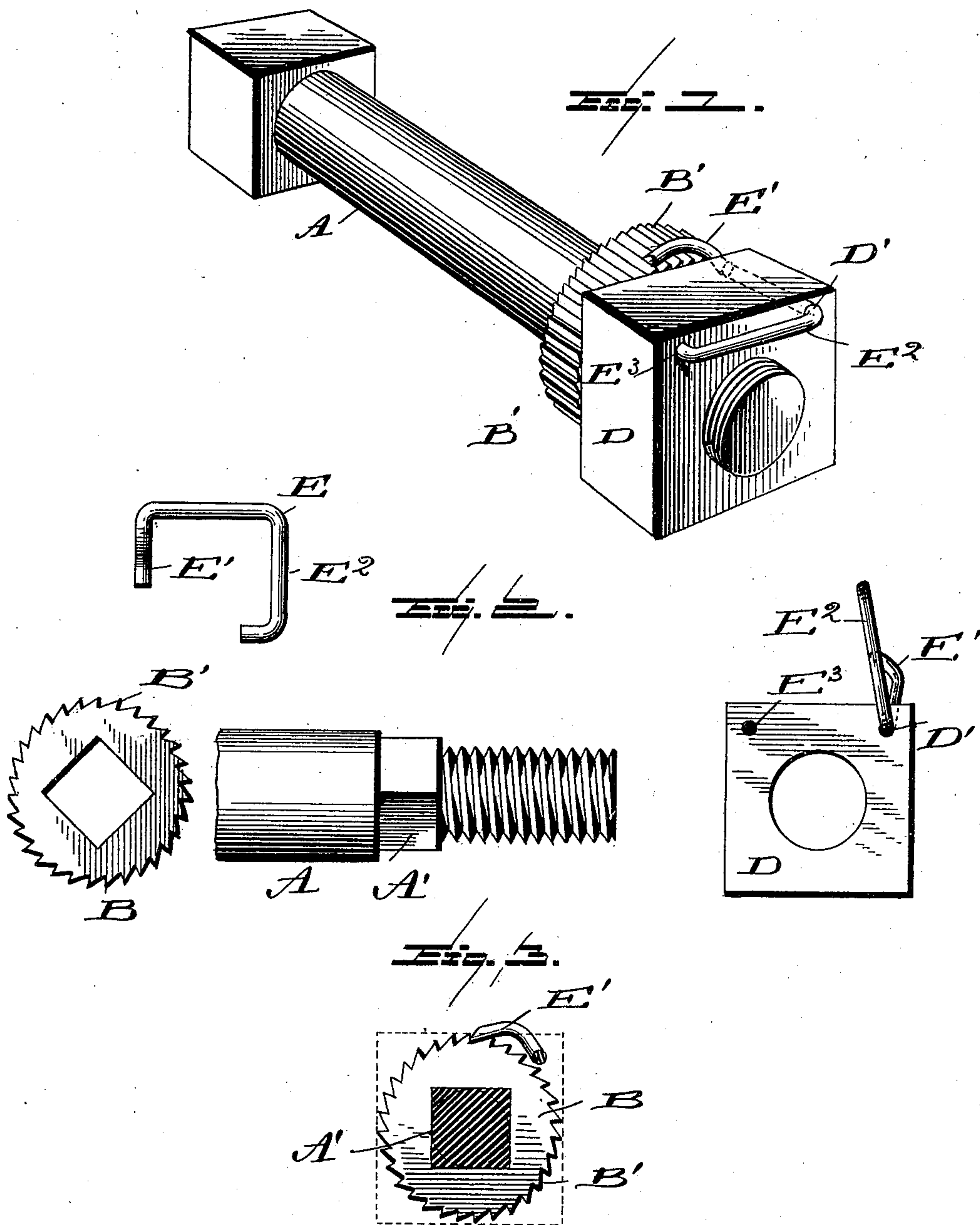
No. 629,530.

Patented July 25, 1899.

F. O. SKELLY.
NUT LOCK.

(Application filed May 11, 1899.)

(No Model.)



Witnesses

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FRANK O. SKELLY, OF JEANNETTE, PENNSYLVANIA.

NUT-LOCK.

SPECIFICATION forming part of Letters Patent No. 629,530, dated July 25, 1899.

Application filed May 11, 1899. Serial No. 716,436. (No model.)

To all whom it may concern:

Be it known that I, FRANK O. SKELLY, a citizen of the United States, residing at Jeannette, in the county of Westmoreland and State of Pennsylvania, have invented certain new and useful Improvements in Nut-Locks; 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, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

This invention relates to new and useful improvements in nut-locks, and especially to a nut-lock of the ratchet-and-pawl type in which a spring-actuated pawl secured to a nut is adapted to be so mounted thereon that its free ratchet-teeth-engaging end may be held yieldingly against said teeth and hold the nut from rotating.

More specifically the present invention resides in the provision of a ratchet nut-lock in which a ratchet-wheel having a squared aperture designed to fit over a similar-shaped shouldered portion of a bolt is provided in combination with a nut having a spring-pawl which is mounted in an aperture in the nut, passed through the same, and one end held in a hole in the nut, while the other free end of said spring-pawl is held yieldingly against and adapted to ride over the circumferential teeth of the ratchet-wheel, whereby the nut may be tightened and held from rotating backward by means of the engagement of its pawl with said ratchet-teeth.

To these ends and to such others as the invention may pertain, the same consists, further, in the novel construction, combination, and adaptation of parts, as will be hereinafter more fully described and then specifically defined in the appended claim.

My invention is clearly illustrated in the accompanying drawings, which, with the letters of reference marked thereon, form a part of this application, and in which—

Figure 1 is a perspective view showing the nut and ratchet in their positions on a bolt. Fig. 2 is a detail view of the parts disassembled, and Fig. 3 is a transverse sectional view through the parts as applied to the bolt.

Reference now being had to the details of

the drawings by letter, A designates a bolt of any ordinary construction, which is provided with a shouldered portion A', on which the squared apertured portion of the ratchet-wheel B is designed to be seated. This ratchet-wheel has a series of circumferential teeth B' of the usual construction, and the nut D is preferably apertured at D', through which aperture the spring-pawl E is passed. One end of said spring-pawl, as E', is bent in the shape illustrated and designed to bear yieldingly against the teeth of the ratchet-wheel and ride thereon as the nut is tightened. The other end of the spring-pawl after being passed through the aperture E in the nut is bent, as at E², flat against the opposite end of the nut from that having the pawl-engaging end, which is bent flat against the nut with its extreme end inserted in a hole E³. By this construction it will be observed that the free ratchet-engaging end of the spring-pawl may be held yieldingly against the teeth of the ratchet and in a fixed position on the nut.

In applying my improved nut to the ratchet and bolt the spring-pawl is caused to ride on the teeth of the ratchet while the nut is turned in one direction and prevented from reverse rotation by the arrangement of the teeth on the ratchet which are engaged by said pawl.

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

A nut-lock, comprising in combination with the bolt having a squared shoulder and ratchet-wheel with squared aperture fitted over said shoulder, the nut having a spring-pawl, the shank portion of which is passed through an apertured portion of the nut, thence bent flat against the outer face of the nut with its extended end bent at right angles and inserted in a hole in the nut, whereby the free ratchet-engaging end of said pawl may be held yieldingly in contact with the teeth of said ratchet-wheel as the nut is tightened, as shown and described.

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

FRANK O. SKELLY.

Witnesses:

GEO. WEISBECKER,
ROBT. M. JONES.