

No. 640,221.

Patented Jan. 2, 1900.

L. L. POWELL.
COMBINED BICYCLE LOCK AND WRENCH.

(Application filed Jan. 28, 1899.)

(No Model.)

Fig. 1.

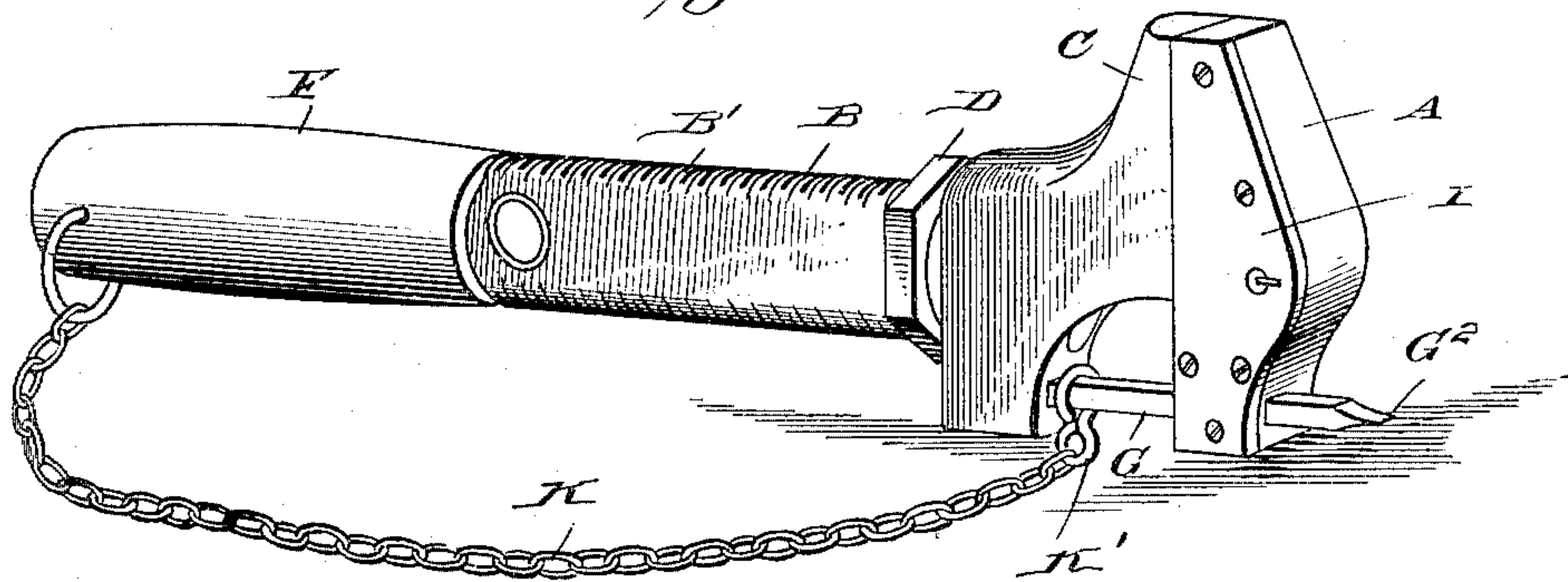


Fig. 2.

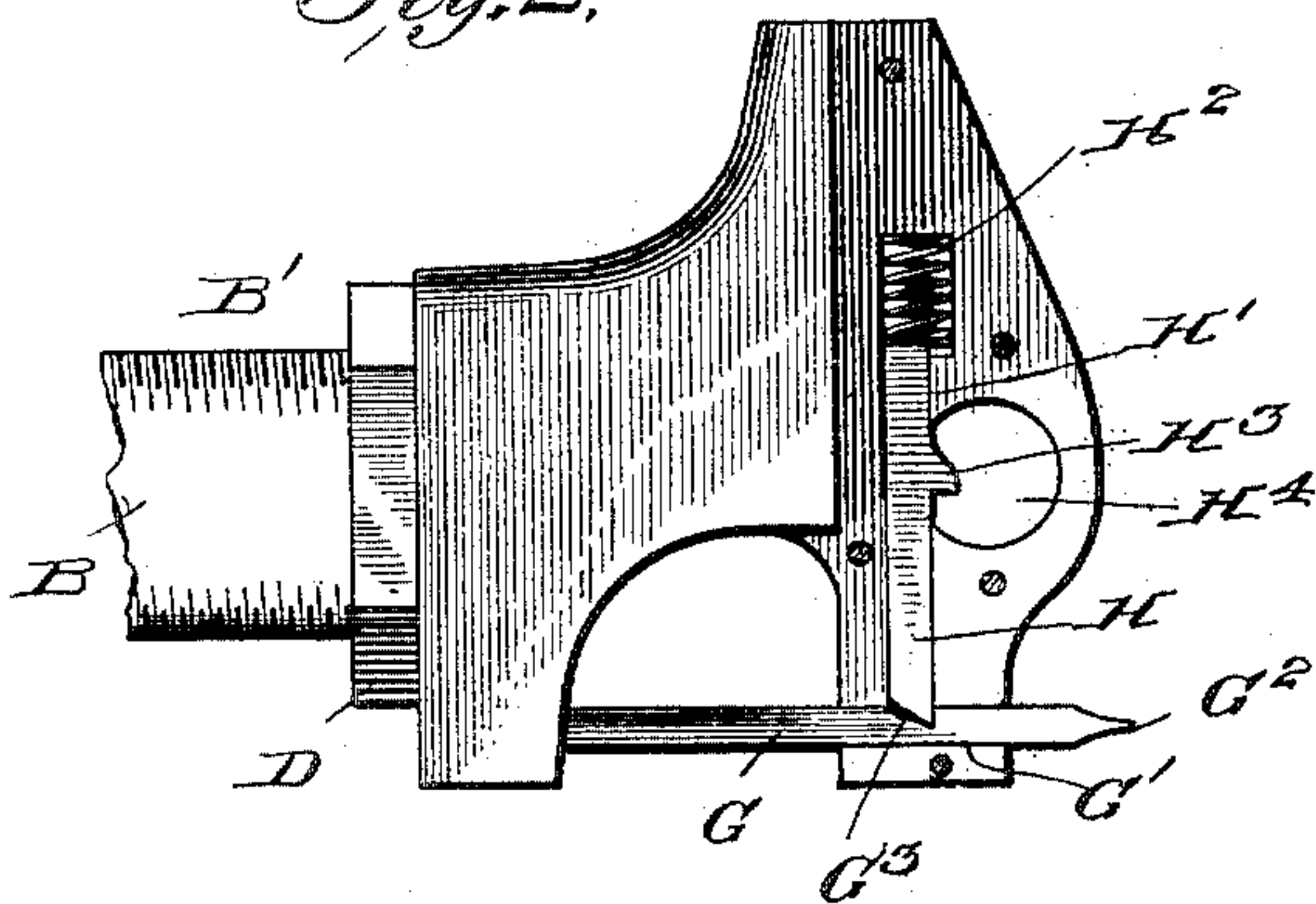
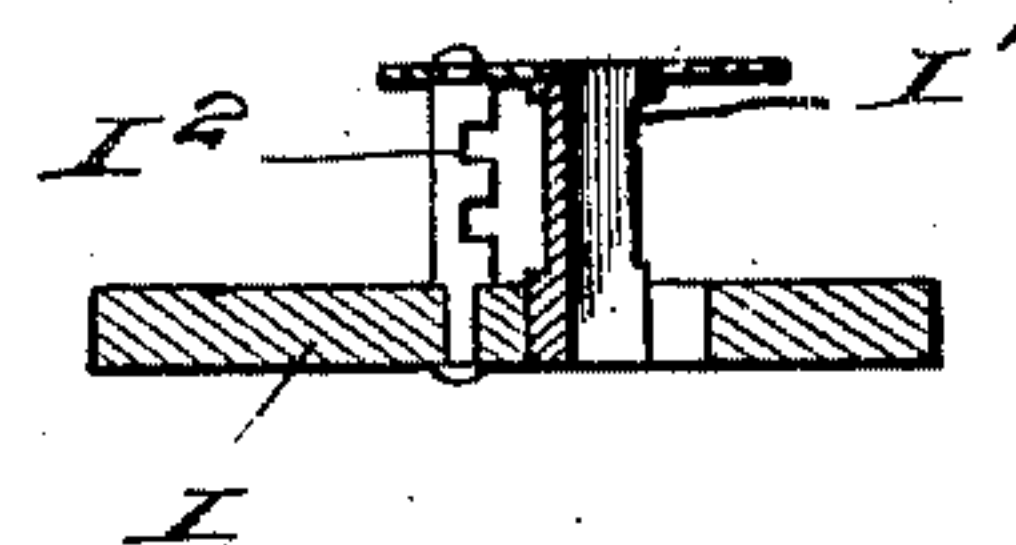


Fig. 3.



Witnesses.

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COMBINED BICYCLE-LOCK AND WRENCH.

SPECIFICATION forming part of Letters Patent No. 640,221, dated January 2, 1900.

Application filed January 28, 1899. Serial No. 703,712. (No model.)

To all whom it may concern:

Be it known that I, LEMUEL L. POWELL, a citizen of the United States, residing at Elkton, in the county of Rockingham and State of Virginia, have invented a new and useful Improvement in a Combined Wrench and Bicycle-Lock, of which the following is a specification.

This invention is a new and useful construction of combination-tool embodying in a device a bicycle-lock which can be used as a wrench, if desired, the object of the invention being to provide a device embodying these features assembled in the most convenient and compact manner.

With this object in view the invention consists in the peculiar construction of the various parts and in their novel combination and arrangement, all of which will be fully described hereinafter and pointed out in the claims.

In the drawings forming part of this specification, Figure 1 is a perspective view of my device adjusted for use as a screw-driver. Fig. 2 is a view showing the cap-plate removed to disclose the mechanism for locking the screw-driver in position. Fig. 3 is a detail sectional view of the face-plate.

In carrying out my invention I employ a stationary or fixed jaw A, which is integral with the shank B, and sliding upon said shank is the movable jaw C, held in any adjusted position by means of the jam-nut D, which works upon the threaded portion D' of the shank B. By means of the movable or sliding jaw arranged in this manner I am enabled to quickly and easily adjust the said jaw in any desired distance in order to operate upon any ordinary-sized nut.

In order to provide a lock for the bicycle and also a screw-driver for any use desired, I attach a rod G to the lower end of the sliding jaw, which rod works in a groove G', cut near the lower end of the fixed jaw, the forward end of the rod being sharpened, as shown at G², to provide a screw-driver, and adjacent to the forward end a notch G³ is cut in the said rod, which notch is adapted to be engaged by a spring-actuated bolt H, sliding in a recess H', cut in the face of the stationary jaw, the spring H² being located in a still deeper recess above the recess H'. The spring-actu-

ated bolt has a lug H³, which is engaged by the bit of a key for the purpose of raising the bolt and disengaging the screw-driver G² and permitting the movable jaw to be slid back.

A face-plate I is screwed upon the recessed and grooved face of the fixed jaw for the purpose of covering the locking-bolt and actuating-spring, and secured to said face-plate is a key-bearing I' and the wards I², it being of course understood that these parts may be varied or changed as desired without departing from the broad principles of the invention, the idea being to derive a suitable means for releasing the bolt H whenever it is desired.

In order to accommodate the key bearing and wards, a mortise H⁴ is cut in the face of the fixed jaw, said mortise opening into a recess or groove H', so that the key as it revolves can come into contact with the lug H³.

I have shown and described the various parts which go to make up a combination wrench, bicycle-lock, and screw-driver. In order to provide a lock for securing the bicycle, I employ a chain K, which is fastened at one end to the handle F and carries an eye K' at the opposite end, through which the screw-driver G is adapted to pass, the lower portion of the movable jaw being cut away in order to permit the screw-driver to be passed through the said eye between the movable and fixed jaws, as most clearly shown in Fig. 1, it being of course understood that the chain is first passed around the wheel or driving-gear of the bicycle before the end is secured.

It will thus be seen that I provide an exceedingly simple and compact combination device capable of performing all of the objects and functions for which it was intended.

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

1. In a tool of the kind described the combination with a shank, a fixed jaw on the end of said shank, and a movable jaw on the shank, of a rod or pin carried by the movable jaw and extending transversely through the fixed jaw, and means for engaging said rod or pin and holding the jaws in a locked position, substantially as described.

2. The combination with the fixed and movable jaws, the shank and handle, of a rod or pin secured to the movable jaw and project-

ing through the fixed jaw, a spring-actuated locking-bolt carried by the fixed jaw and adapted to engage the locking rod or pin projecting therethrough, and a chain fastened at
5 one end to the handle and carrying an eye or loop at the opposite end through which the rod or pin is adapted to pass, substantially as shown and described.

3. In a tool of the kind described, the combination with the fixed and movable jaws, of

the rod or pin carried by the movable jaw and projecting through the fixed jaw, a spring-actuated bolt having a lug adapted for engaging with a key and the face-plate carrying a key-bearing, substantially as described.

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Witnesses:

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