

1,053,770.

Fig. 1.

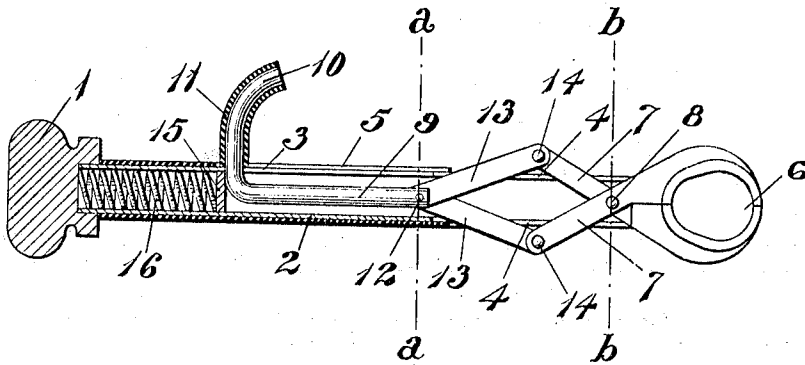


Fig. 2.

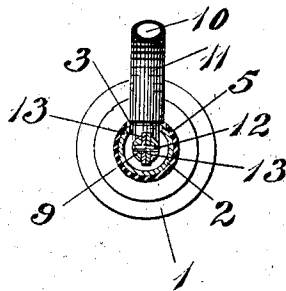
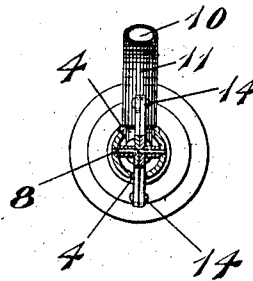


Fig. 3.



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UNITED STATES PATENT OFFICE.

PERCY D. BARAGER, OF ROCHESTER, NEW YORK.

FUSE-PULLER.

1,053,770.

Specification of Letters Patent,

Patented Feb. 18, 1913.

Application filed July 5, 1912. Serial No. 707,862.

To all whom it may concern:

Be it known that I, PERCY D. BARAGER, a citizen of the United States, residing at Rochester, in the county of Monroe and State of New York, have invented new and useful Improvements in Fuse - Pullers, of which the following is a specification.

This invention is an improved insulated fuse puller especially adapted for use for removing and installing electric code fuses, the object of the invention being to provide an improved tool of this character which may be used without danger of an electric shock to the user, the invention consisting in the construction, combination and arrangement of devices hereinafter described and claimed.

In the accompanying drawings:—Figure 1 is a vertical longitudinal sectional view of a fuse puller constructed in accordance with my invention. Fig. 2 is a transverse sectional view of the same on the plane indicated by the line *a—*a** of Fig. 1. Fig. 3 is a similar view on the plane indicated by the line *b—*b** of Fig. 1.

In accordance with my invention, I provide a handle 1 which is made of wood or other suitable insulating material and is of a form and shape adapting it to be held in the palm of the hand. To one side of the handle at the center thereof is secured a tubular arm 2, the tubular arm being preferably made of metal. This tubular arm is provided in one side with a slot 3 and is also provided near its outer end with slots 4 on opposite sides. The tubular arm is covered by an insulating sleeve or casing 5 which is made of fiber or other suitable insulating material and has a slot in one side corresponding with the slot 3.

A pair of fuse gripping jaws 6 are provided with crossed lever arms 7 which are pivotally connected together and are also pivotally mounted in the outer end of the tubular arm 2 by a pivot pin 8. An operating rod 9 is arranged and movable longitudinally in the tubular arm 2 and has a finger piece 10 which projects at right angles therefrom at its inner end, operates in the slot 3 and extends to one side of the tubular arm. This finger piece is here shown as integral with the operating rod and is preferably so constructed. A finger piece is covered by a tubular insulating sleeve or casing 11 which may be made of fiber

or other suitable insulating material. The outer end of the operating rod is pivotally connected, by a pin 12, to a pair of links 13, the said links being pivotally connected, by pins 14 to the lever arms 7. A plunger 15 is arranged for longitudinal movement of the tubular arm 2 and bears against and is secured to the inner end of the operating rod 9. A coiled extensile spring 16 is placed in the inner end of the tubular arm, one end of the said spring bearing against the plunger 15 and the other end bearing against the handle 1. This spring exerts its tension to normally move the rod 9 outwardly so as to cause the rod through the instrumentality of the links 4 and lever arm 7 to open the fuse gripping jaws and hold said jaws in open position. In order to close the jaws, so as to grip a fuse between them, the finger piece 10 together with the rod 9 is pulled rearwardly toward the handle 1 by the user, thereby overcoming the tension of the spring 16 and causing the rod 9 and the links 4 together with the lever arm 7 to close the gripping jaws as will be understood.

It will be noted that the tubular arm of the handle and the finger piece of the operating rod are thoroughly insulated so that there is no danger of an electric shock to the user of the implement.

While I have herein shown and described a preferred form of my invention, I would have it understood that changes may be made in the form, proportion and construction of the several parts without departing from the spirit of my invention and within the scope of the appended claims.

I claim:—

1. The herein described fuse puller comprising an insulating handle, an insulating tubular arm projecting from the handle and having a longitudinal slot in one side, a pair of fuse gripping jaws arranged at the outer end of the tubular arm and having crossed levers pivotally mounted therein, an operating rod arranged for longitudinal movement in the tubular arm, and having an insulated finger piece projecting from one side and movable in the slot in said tubular arm, and links connecting said operating rod and said crossed levers.

2. The herein described fuse puller comprising an insulating handle, an insulating tubular arm projecting from the handle and having a longitudinal slot in one side, a

pair of fuse gripping jaws arranged at the
outer end of the tubular arm and having
crossed levers pivotally mounted therein,
an operating rod arranged for longitudinal
5 movement in the tubular arm, and having an
insulated finger piece projecting from one
side and movable in the slot in said tubular
arm, links connecting said operating rod and
said crossed levers, and a spring to move

the operating rod outwardly and cause the 10
gripping jaws to open.

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

PERCY D. BARAGER.

Witnesses:

MYRON O. BRAY,

ADA M. WHITMORE.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents,
Washington, D. C."