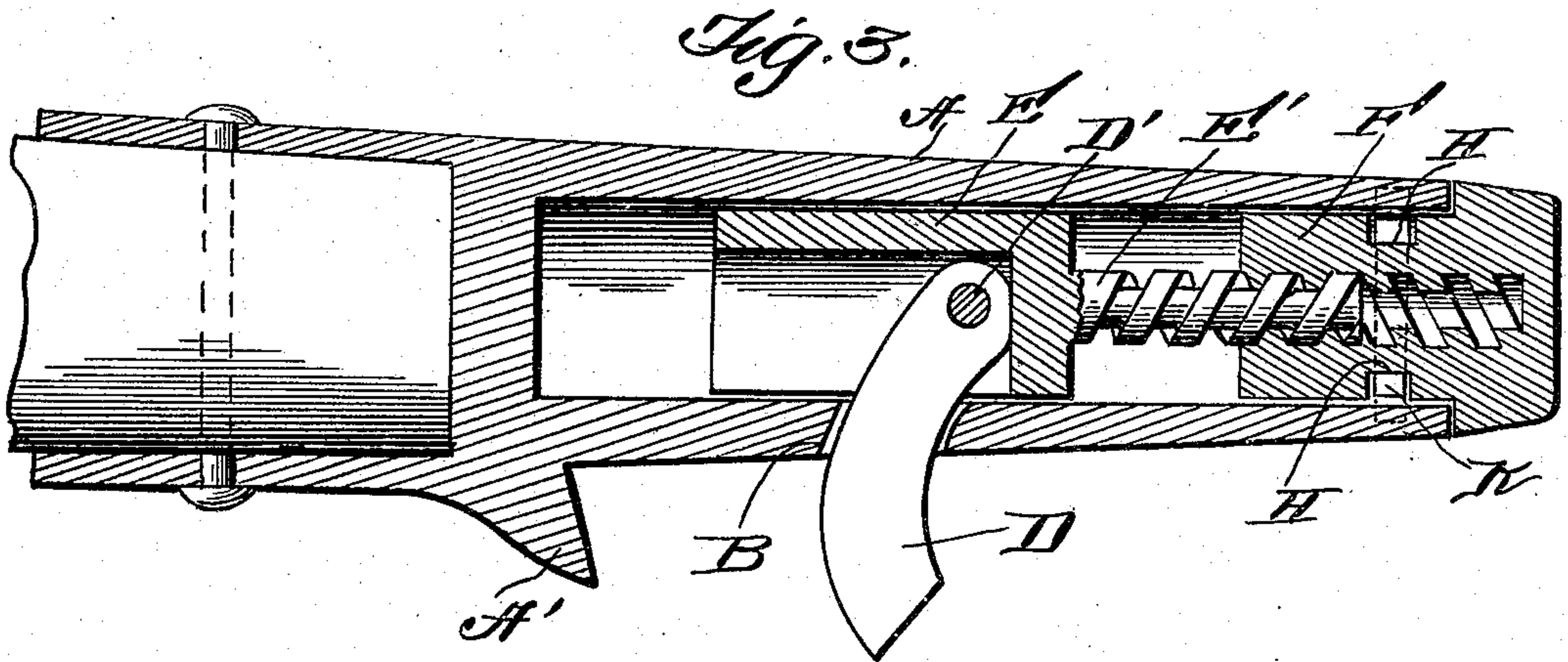
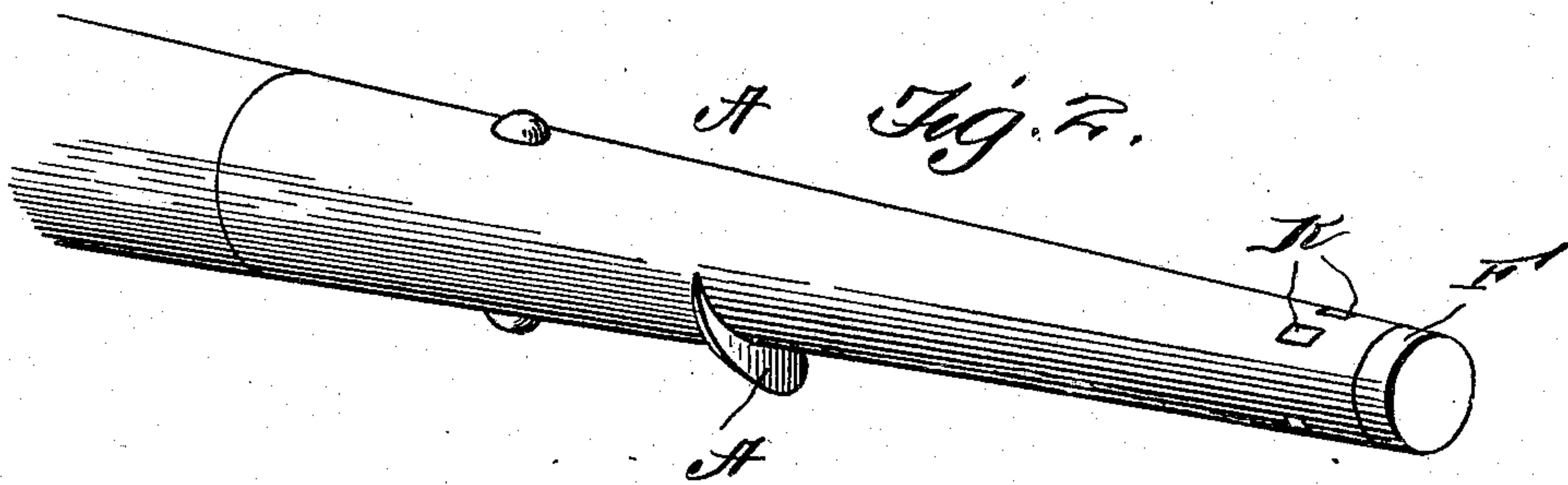
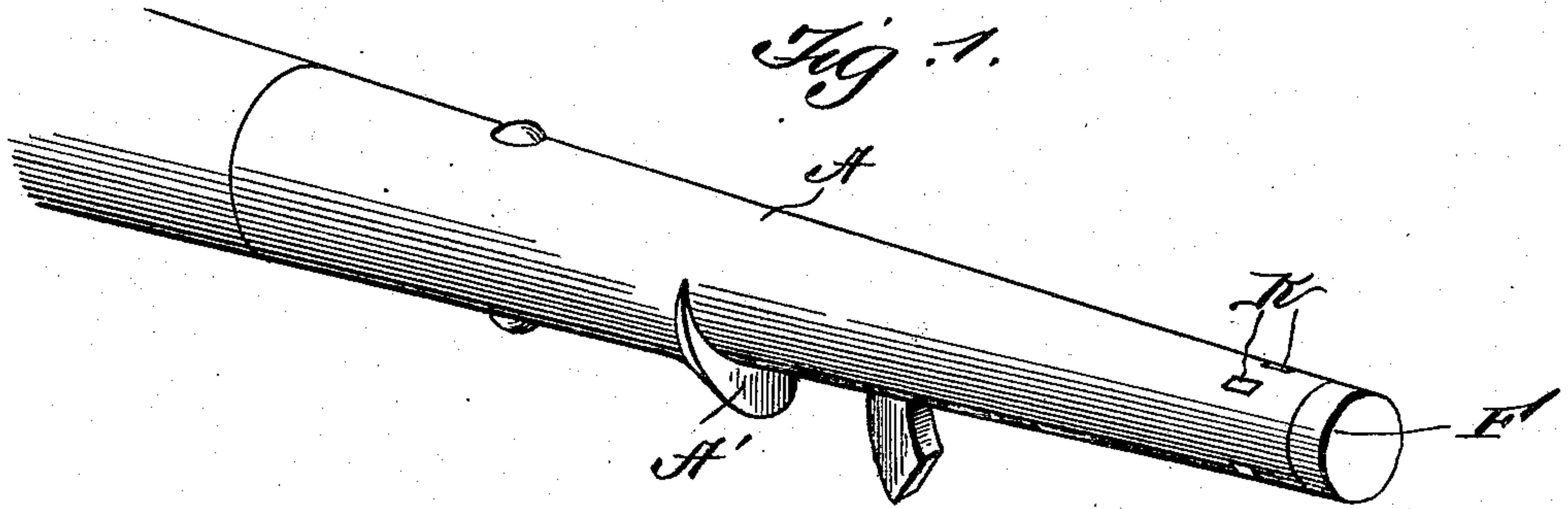


J. POUL.
POLE TIP.

APPLICATION FILED MAY 14, 1909.

930,795.

Patented Aug. 10, 1909.



Witnesses

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UNITED STATES PATENT OFFICE.

JOHN POUL, OF NEW BREMEN, NEW YORK.

POLE-TIP.

No. 930,795.

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To all whom it may concern:

Be it known that I, JOHN POUL, a citizen of the United States, residing at New Bremen, in the county of Lewis and State of New York, have invented certain new and useful Improvements in Pole-Tips; and I do declare the following to be a full, clear, and exact description of the invention, such as 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 pole tips and consists essentially in the provision of a neck yoke retaining projection adapted to be actuated by the rotation of a screw to cause the same to project beyond the outer circumference of the pole or to be retracted within the pole to allow a neck yoke to be readily removed therefrom.

The invention comprises various details of construction and combinations and arrangements of parts which will be hereinafter fully described and then specifically defined in the appended claims.

My invention is illustrated in the accompanying drawings, in which:—

Figure 1 is a perspective view of my improved pole tip showing the neck yoke retaining member extended. Fig. 2 is a perspective view of the pole tip, the neck yoke retaining member being withdrawn within the same and not shown. Fig. 3 is a sectional view longitudinally through the pole tip.

Reference now being had to the details of the drawings by letter, A designates a hollow pole tip having an integral neck yoke retaining projection A' projecting therefrom and said pole tip is slotted at B for the reception of a movable neck yoke retaining member D. Said member D is preferably curved longitudinally, as shown, and is apertured for the reception of a pivot pin D' mounted in registering apertures in the wall of the recess of the cylindrical plug E, which latter telescopes within the end of the pole tip, as shown clearly in the sectional view of the drawings. Said plug has a contracted projection E' which is threaded to form a screw, and F designates a swiveled closure for the end of the pole. Said closure has a cylindrical shank portion with an an-

nular groove H therein and through which groove the diagonally disposed keys K pass, forming a swivel connection between the closure and the pole in which it rotates. The shank portion of said closure is hollow and is provided with interior threads adapted to engage the threads upon the contracted portion of said plug and forms means whereby, as the end of the closure, the circumference of which is preferably flush with the circumference of said pole tip, is rotated in one direction or the other, the cylindrical plug E will be given a longitudinal movement backward or forward. As the convexed or concaved edge of the member E comes in contact with one end or the other of the slot B in the pole, said walls being preferably inclined or curved, said member will be projected beyond the circumference of the pole or retracted within the same so that the end of the member will be flush with the outer circumference of the pole.

By the provision of a pole tip made as shown and described, it will be noted that a simple and efficient means is afforded whereby the member D may be projected beyond the circumference of or retracted within the hollow pole, affording means for retaining a neck yoke or allowing it to be readily removed from the pole by simply turning the closure in one direction or the other. The operative parts of the apparatus being mounted within the hollow pole tip, it will be protected from the elements and, should it be desired to remove the plug for any purpose, it may be done by simply removing the key, allowing the closure first to be withdrawn after which the plug may be withdrawn.

What I claim to be new is:—

1. In combination with a pole tip which is hollow, a neck yoke retaining member movable through an aperture in the wall of the tip, a movable plug mounted within the pole tip and to which said member is pivotally connected, a screw projecting from said plug, a closure having a shank portion swiveled within the pole tip and having a threaded bore for the reception of said screw, as set forth.

2. In combination with a pole tip which is hollow, a neck yoke retaining member movable through an aperture in the wall of the tip, a movable plug mounted within the pole tip and to which said member is pivotally connected, a screw projecting from

said plug, a closure having a shank portion swiveled within the pole tip and having a threaded bore for the reception of said screw, the end of said closure projecting beyond the pole tip and having its circumference flush with the circumference of said pole tip, as set forth.

3. In combination with a pole tip which has a chambered end, the wall of which is slotted, a plug movable within said chambered portion, a curved neck yoke retaining member pivoted to said plug and adapted to move through said slot, a screw projecting from said plug, a closure swiveled within the chambered portion of the pole tip and having a hollow threaded shank portion adapted to receive said screw, as set forth.

4. In combination with a pole tip having

a hollow end, the wall of said hollow end having a slot therein, the end walls of which are inclined, a recessed plug movable within the hollow end of the tip, a curved neck yoke retaining member pivoted in the recess in said plug and adapted to move through said slot, a screw projecting from said plug, a swiveled closure mounted within the hollow end of the tip and having a threaded bore engaged by the threads of said screw, as set forth.

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

JOHN POUL.

Witnesses:

STELLA BATEMAN,
N. J. CONNOLLY.