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PATENTED AUG. 20, 1907.

F. L. GRAVES.

COMBINED SAFETY CLIP AND CAP HOLDER FOR PENS AND PENCILS.

APPLICATION FILED JAN. 3, 1907.

Fig. 1

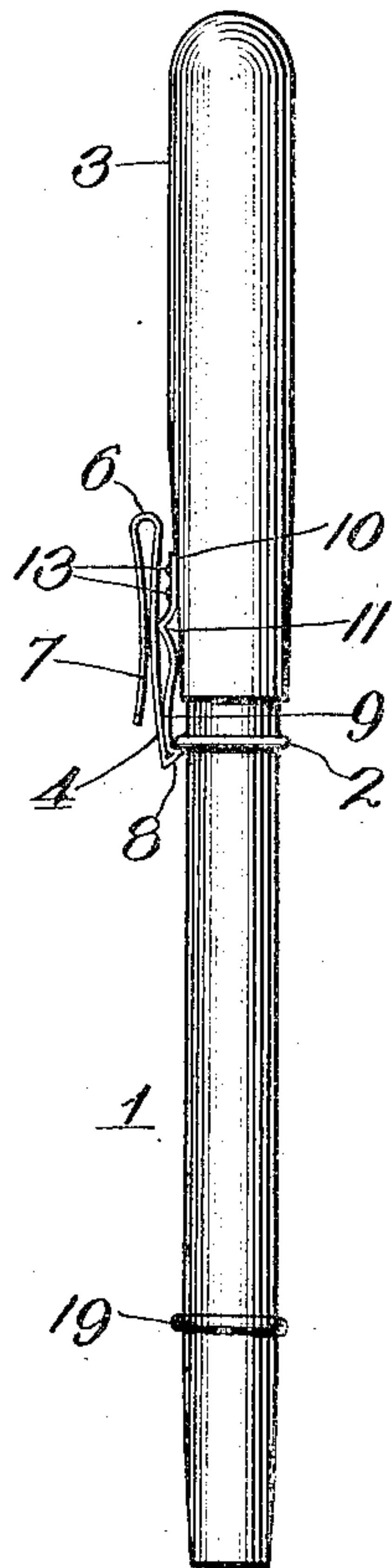


Fig. 2.

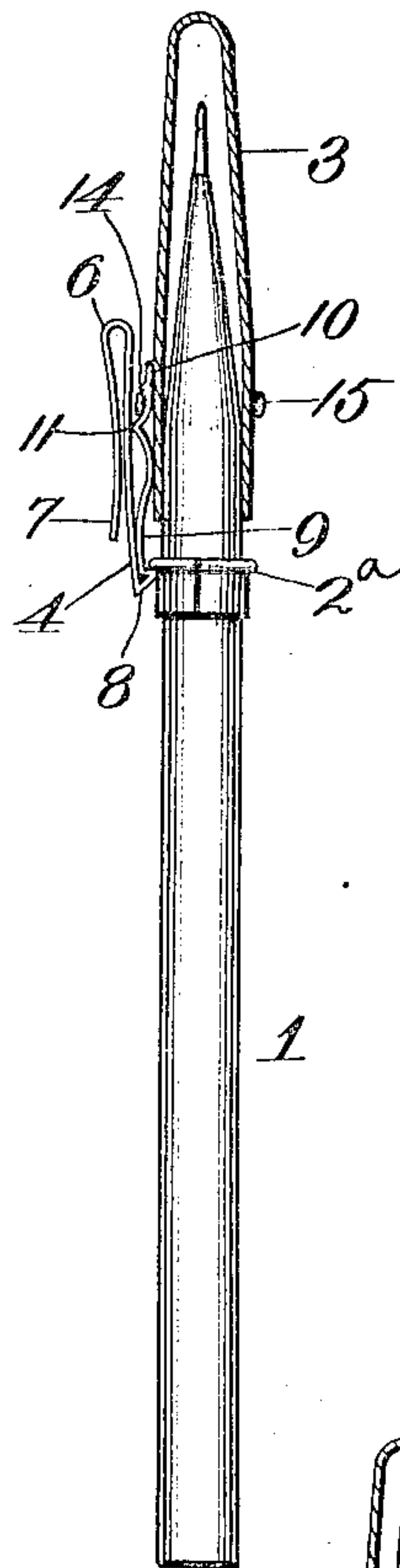


Fig. 8



Fig. 3.

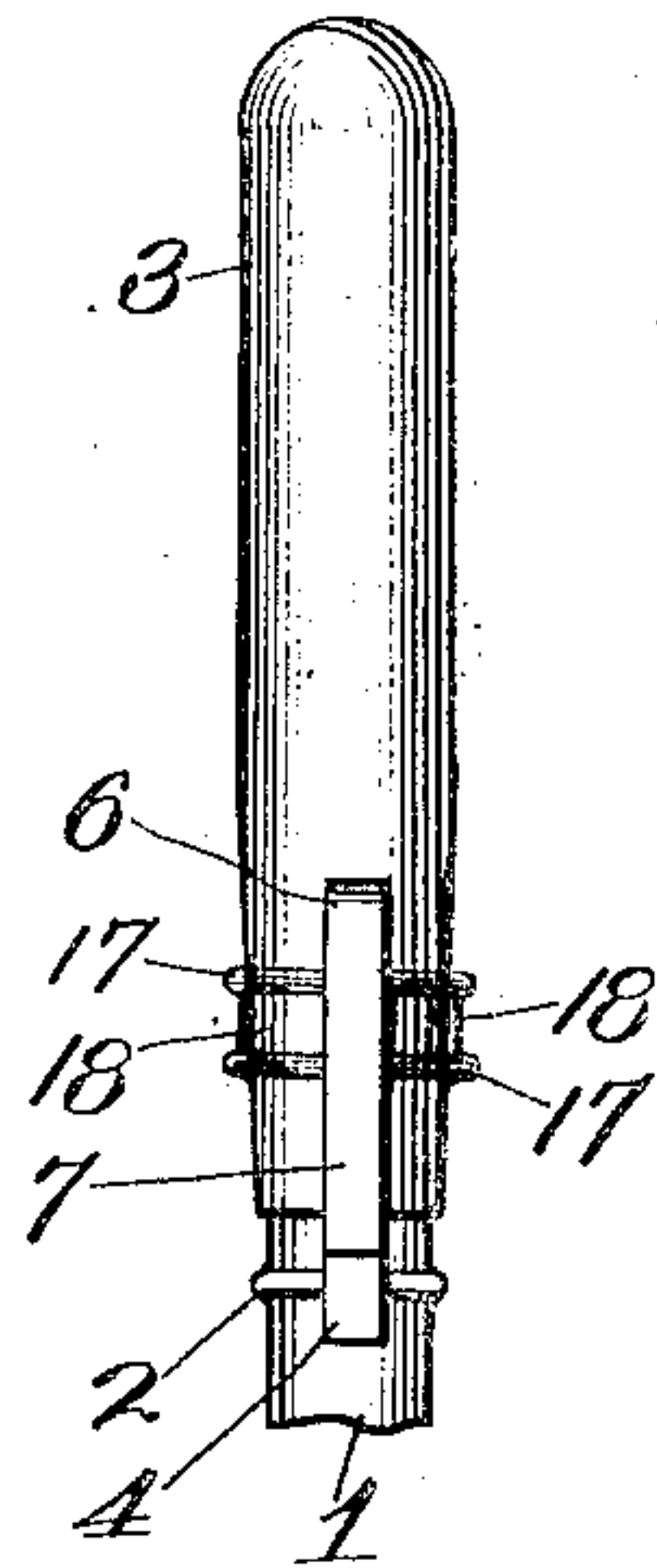


Fig. 7.

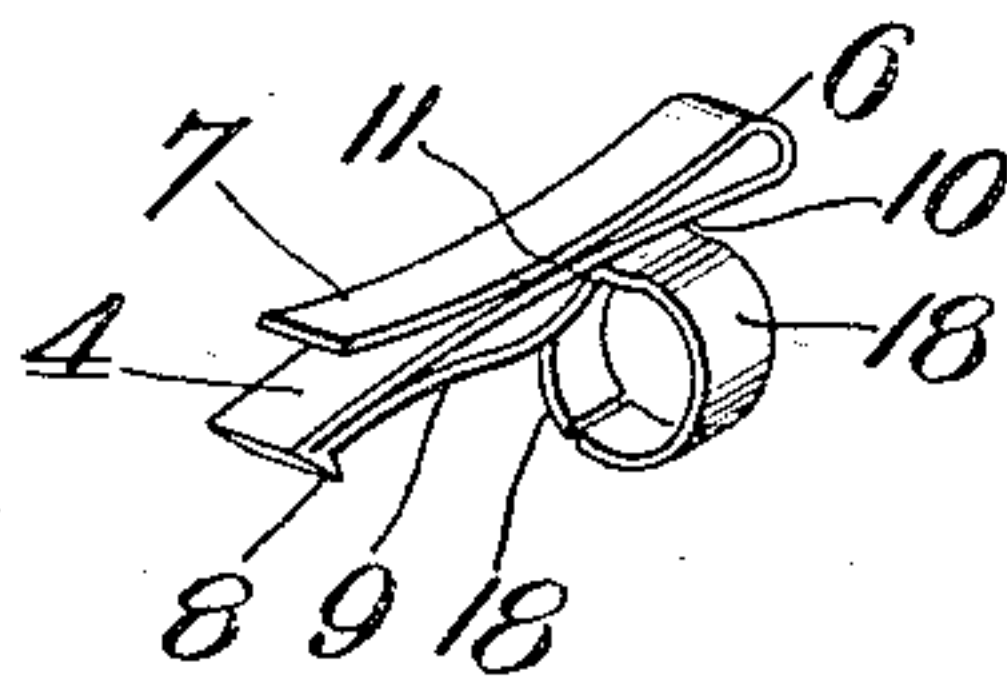


Fig. 4.

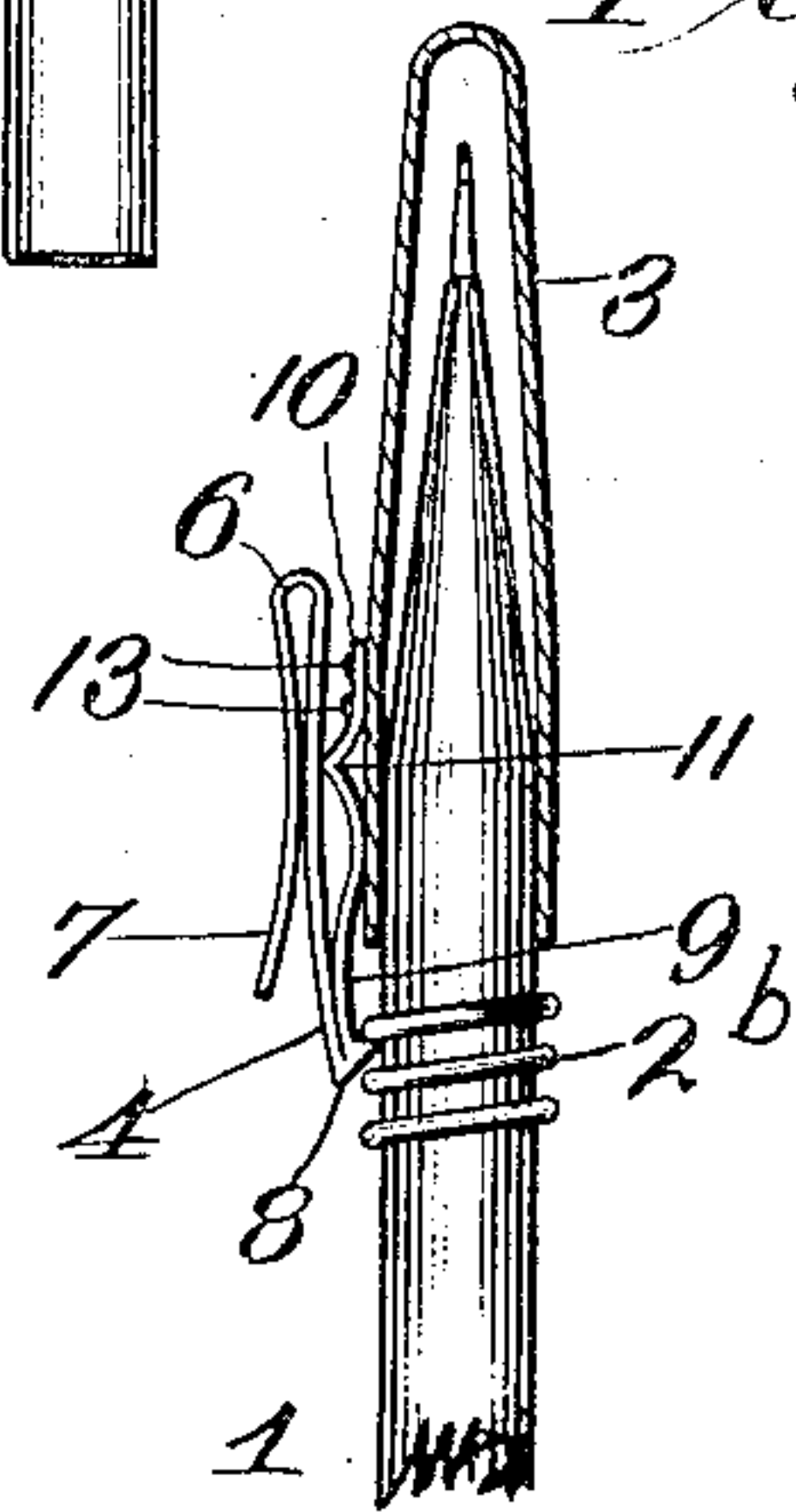


Fig. 5

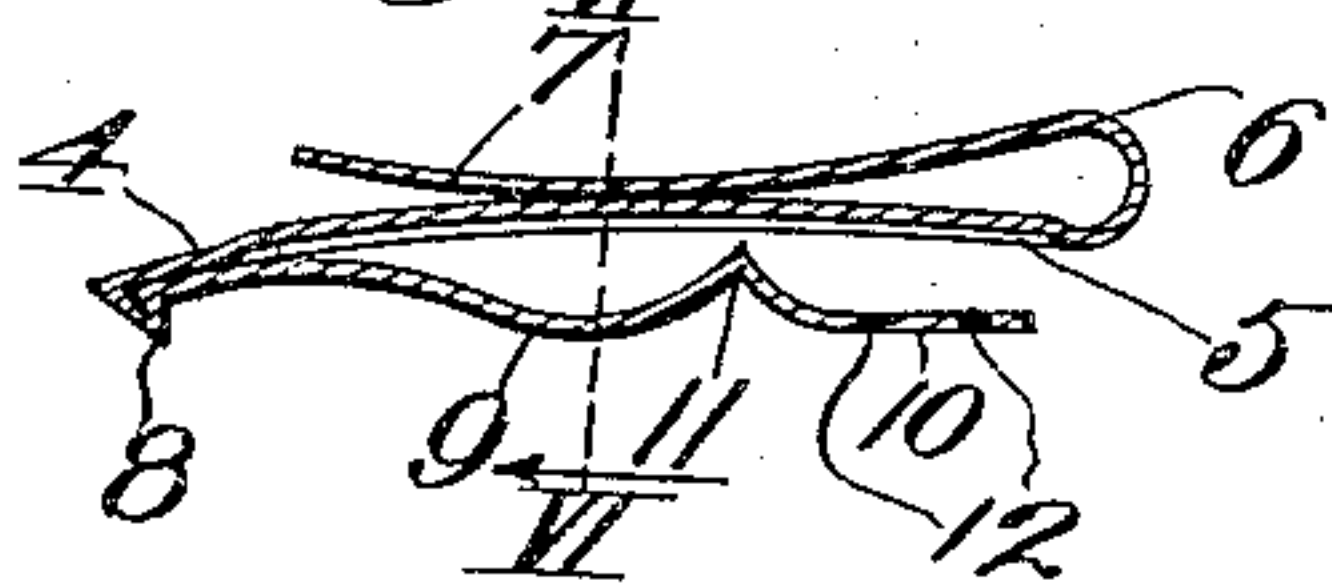
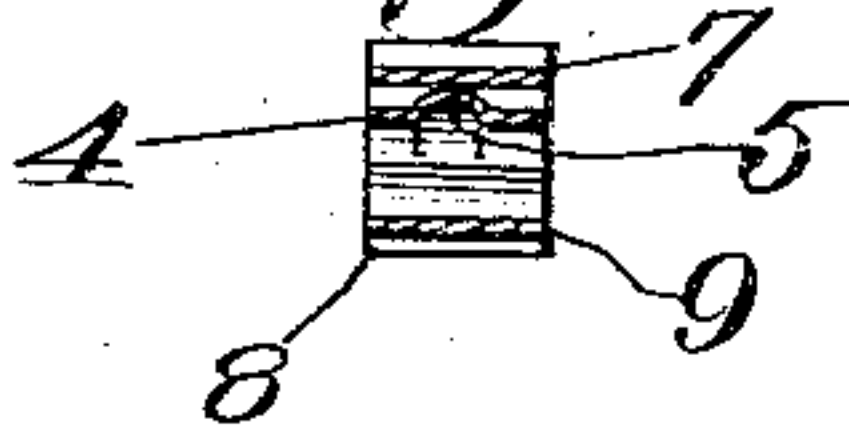


Fig. 6



Witnesses

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UNITED STATES PATENT OFFICE.

FRANKLIN L. GRAVES, OF KANSAS CITY, MISSOURI.

COMBINED SAFETY-CLIP AND CAP-HOLDER FOR PENS AND PENCILS.

No. 863,915.

Specification of Letters Patent.

Patented Aug. 20, 1907.

Application filed January 3, 1907. Serial No. 350,603.

To all whom it may concern:

Be it known that I, FRANKLIN L. GRAVES, a citizen of the United States, residing at Kansas City, in the county of Jackson and State of Missouri, have invented certain new and useful Improvements in a Combined Safety-Clip and Cap-Holder for Pens and Pencils, of which the following is a specification.

This invention relates to a combined safety clip and cap holder for fountain pens and pencils, and my object is to produce a device of this character which will efficiently and reliably hold the cap in place and at the same time secure the pen or pencil and the cap thereon reliably in place in one's pocket.

A further object is to produce a device of this character of simple and cheap construction and which can be easily and quickly secured to caps of varying styles.

With these general objects in view and others as hereinafter appear, the invention consists in certain novel and peculiar features of construction and organization as hereinafter described and claimed; and in order that it may be fully understood reference is to be had to the accompanying drawing, in which—

Figure 1, is a side view of a fountain pen equipped with a device embodying my invention. Fig. 2, is an elevation of a pencil equipped with a cap, shown in longitudinal section, and with means embodying my invention securing the cap to the pencil. Fig. 3, is an elevation of a part of a fountain pen equipped with a modified top for the device. Fig. 4, is an elevation of a part of a pencil equipped with a device of which one element is of modified construction. Fig. 5, is an enlarged central longitudinal section of the preferred construction of the element of the device which is adapted to be secured to the cap element of a pen or pencil. Fig. 6, is a section on the dotted line VI—VI of Fig. 5. Fig. 7, is a detail perspective view of the element of the device shown in Fig. 5, but of modified construction as shown in Fig. 3. Fig. 8, is a side view of a ring forming part of the invention.

In the said drawing, 1 indicates a pencil or the body portion of a fountain pen and 2 a bead thereon, said bead being turned or molded as a part of the body portion of a pen as indicated in Figs. 1 and 3 or forming a part of a split sleeve of spring metal as shown in Fig. 2 or one of the convolutions of a coil spring as shown in Fig. 4, the types of bead shown in Figs. 2 and 4 being adapted particularly for use on pencils because they must be adjusted longitudinally toward the butt end of the pencil as the latter is cut away by repeated sharpenings. The beads of modified form, Figs. 2 and 4, are identified by reference characters 2^a and 2^b respectively.

3 indicates a cap to inclose the pen point, not shown, or to protect the sharpened end of the pencil. The element of the device to be carried by the cap and adapted for engagement with the body as hereinafter referred to, is preferably constructed of a strip of spring

metal, comprising a central portion 4 which is preferably provided with a longitudinal stiffening rib or bead as at 5. At the rear end of the bead the strip is bent back as at 6 so as to produce a spring arm 7 which tends to press against or close to the central portion and at its free end flares away from the front end of the latter in order to facilitate the engagement of said clamp arm with the upper edge of one's vest or coat pocket. At the front end of the central portion 4 the strip is bent in the opposite direction to bend 6 to form a rearwardly disposed beveled tooth 8, and a spring arm to lie at the opposite side of the central portion from clamp arm 7, the said arm projecting from said tooth comprising a substantially compound curve front portion 9, and a rear portion 10 united by an arched portion 11. This arched portion projects upward to form a fulcrum for the central or stiffened portion. The arm 10 in some instances will be provided with a plurality of holes 12 in which rivets 13 may be fitted to rivet the device to the cap 3 as shown in Figs. 1 and 4. In other instances the arm 10, may be crimped so as to form practically a rigid tooth 14 with its beveled side disposed rearwardly and toward the portion 4, and in this case said arm may be also provided with holes 12 if desired so that it may be either riveted as explained to the cap 3 or may be secured to said cap by a ring 15 encircling the cap and provided with an offsetting portion 16, through which the beveled tooth may be forced until its abrupt or forwardly disposed shoulder shall engage the rear side of the offsetting portion and the arched portion the front edge of said portion to prevent longitudinal movement of the device. In this construction the ring may be secured rigidly to the cap end in any suitable manner as by a suitable cement.

In Fig. 3, the cap is shown as turned with a pair of beads 17 and the portion 10 with laterally projecting arms 18 arranged to form a split clamp ring as shown most clearly in Fig. 7, this split ring being adapted to be sprung into the groove formed by and between the beads 17, for the purpose of holding the device from longitudinal movement on the cap. In each case it will be seen that when the cap is forced upon the pen or pencil the beveled edge of its tooth 8 will engage the bead 2, 2^a or 2^b as the case may be, and slide over the same, the central or stiffened portion 4 rocking slightly on the fulcrum 11 to accommodate such movement and when thus engaged it will be apparent that the cap cannot become detached until its central portion is again rocked by any suitable pressure applied on the rear end of the clamp arm 7. The pen or pencil can then be slipped in one's pocket and forced downward until the upper edge of the pocket is clamped tightly between the central portion and the clamp arm 7, it being noted that where the central portion is stiffened by means of a rib or bead 5, the fabric of the pocket is kinked slightly and tends to prevent lateral

or sliding movement of the pen or pencil in the pocket. In all cases the central portion must necessarily be sufficiently stiff and rigid to rock instead of bending on the fulcrum that portion of the arm secured directly to the cap which is bowed away from the central portion 4, bending or yielding sufficiently to accommodate this rocking action.

As a convenient means of holding the cap on the butt end of the pen or pencil when not in use, the latter may be provided with a bead as at 19 for engagement with the tooth 8 when the cap is slipped upon said end. In such position it cannot be readily dislodged accidentally and will avoid chance of loss due to misplacement while the pen is in use.

From the above description it will be apparent that I have produced a combined safety clip and cap holder for fountain pens and pencils possessing the features of advantage enumerated as desirable and I wish it to be understood that I do not desire to be restricted to the exact details of construction shown and described as obvious modifications will suggest themselves to one skilled in the art.

Having thus described the invention what I claim as new and desire to secure by Letters-Patent, is:—

1. A combined safety clip and cap holder for pens and pencils, comprising a central portion, a clamp arm connected to the rear end thereof and projecting forward at one side of the central portion, a tooth at the front end and opposite side of the central portion, and a spring arm at the last-named side of the central portion and projecting rearwardly from said tooth.

2. A combined safety clip and cap holder for pens and pencils, comprising a central portion, a clamp arm connected to the rear end thereof and projecting forward at one side of the central portion, a tooth at the front end

and opposite side of the central portion, and a spring arm at the last-named side of the central portion and projecting rearwardly from said tooth, and having an arched portion to form a fulcrum for said central portion.

3. A combined safety clip and cap holder for pens and pencils, comprising a central portion, a clamp arm connected to the rear end thereof and projecting forward at one side of the central portion, a tooth at the front end and opposite side of the central portion, and a spring arm at the last-named side of the central portion and projecting rearwardly from said tooth, and consisting of a substantially compound curve front portion, a rear portion, and an arch uniting said portions and forming a fulcrum for the central portion.

4. A combined safety clip and cap holder for pens and pencils comprising a central portion, a clamp arm connected to the rear end thereof and projecting forward at one side of the central portion, a tooth at the front end and opposite side of the central portion, a spring arm at the last-named side of the central portion and projecting rearwardly from said tooth, and having an arched portion to form a fulcrum for said central portion, and spring arms projecting laterally from the last-named arm rearward of the arched portion and forming a split clamping ring.

5. The combination of a device provided with a writing point and an external bead back of such point, a cap to fit over such point, and a device comprising a central portion having spring arms at opposite sides thereof, one of said arms being united to the central portion at its rear end and the other to said central portion at its front end and at its rear end to said cap, and a rearwardly disposed tooth at the front end of said central portion and forward of the corresponding end of the cap and adapted to engage the bead of the device provided with a writing point.

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

FRANKLIN L. GRAVES.

Witnesses:

H. C. RODGERS,
G. Y. THORPE.