A. SCHEIBLE.

CLIP FOR FOUNTAIN PENS.

APPLICATION FILED MAY 7, 1914.

1,111,501. Patented Sept. 22, 1914.

Fig. 1.

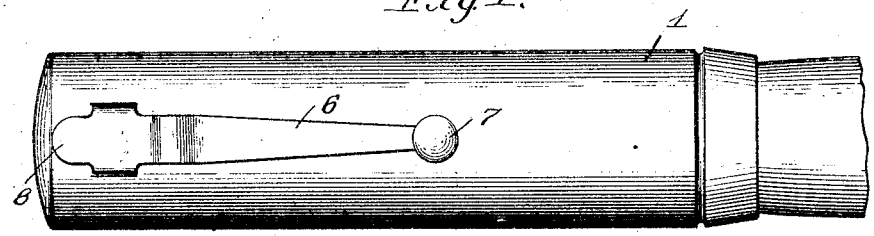


Fig. 2.

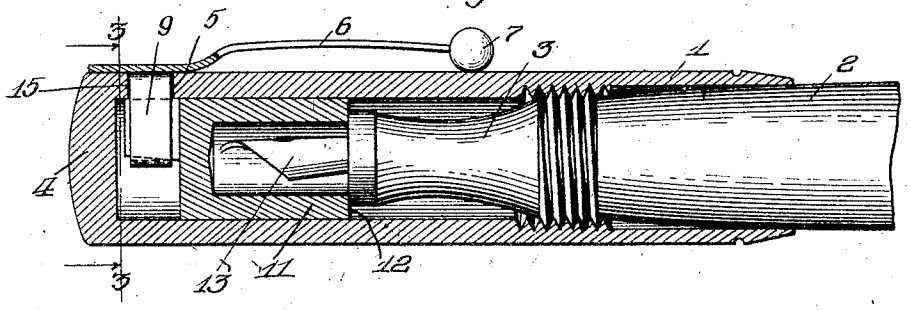


Fig. 4.

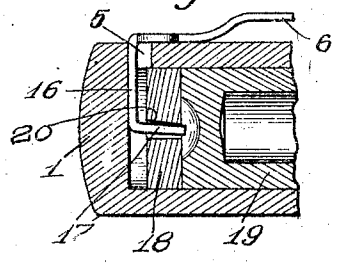


Fig. 3.

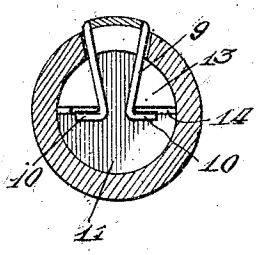
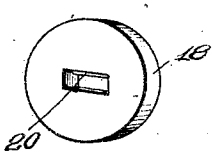


Fig. 5.



Witnesses:
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UNITED STATES PATENT OFFICE.

ALBERT SCHEIBLE, OF CHICAGO, ILLINOIS, ASSIGNOR, BY MESNE ASSIGNMENTS, TO THE KRAKER PEN CO., OF KANSAS CITY, MISSOURI, A CORPORATION OF MISSOURI.

CLIP FOR FOUNTAIN-PENS.

1,111,501. Specification of Letters Patent. Patented Sept. 22, 1914.

Application filed May 7, 1914. Serial No. 836,891.

To all whom it may concern:

Be it known that I, ALBERT SCHEIBLE, citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Clips for Fountain-Pens; and I do hereby 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.

My invention relates to clips or retainers for securing the caps of fountain pens to pockets, and more particularly to methods of securing a clip member to the outer cap of a fountain pen.

The prime object of my invention is to provide a simple, cheaply made and easily assembled clip and cap construction which will present a handsome appearance and in which the clip may be effectively secured to the cap without the necessity of great accuracy in the manufacturing of the various members of the cap and clip combination.

Other objects will appear from the accompanying drawings, in which—

Figure 1 is an elevation of the cap end of a fountain pen equipped with a clip embodying my invention. Fig. 2 is a fragmentary longitudinal section through the same. Fig. 3 is a transverse section through Fig. 2 along the line 3—3. Fig. 4 is a fragmentary longitudinal section through the end portions of a cap and clip showing another embodiment of my invention. Fig. 5 is a perspective view of the locking member of Fig. 4.

In one of its chief features, my invention consists in equipping a clip (disposed after the usual manner upon the outer surface of a pen cap) with at least one arm extending through a perforation in the cap into the interior of the latter, and in interlocking the said arm with a member slidably inserted in the interior of the cap and presenting a cam surface engaging a portion of the said arm to draw an exposed portion of the clip tightly against the outer surface of the cap. This feature may be accomplished with substantially equal facility in a number of different ways, two of which are illustrated in the drawings. Thus, Fig. 2 shows a pen having an outer cap 1 threaded upon the forward end of a barrel 2 carrying a pen-holder section 3 after the usual manner of fountain pen constructions. The cap 1 is provided near its closed end 4 with a lateral perforation 5 through which the arm portion or portions of the clip of my invention may extend into the interior of the cap. In Figs. 1 and 2, the clip member of my construction comprises a resilient shank 6 equipped at its free end with a ball-shaped tip 7 and at its opposite end with a heel portion 8 adapted to bear upon the outer lateral surface of the cap close to the rear end 4 of the latter. Intermediate of the said shank 6 and heel 8, the clip member is equipped with a pair of arms 9, which arms normally project into the interior of the cap 1 and which arms are provided at their free ends with oppositely directed portions 10. The said arms and extensions are preferably made integral with the same punching for the shank 6 and the toe 8 of the clip, the resiliency of the metal used enabling the free ends 10 of the said arms to be sprung toward each other so as to permit their insertion through the perforation 5 even though the distance between the tips of the said portions 10 is greater than the width of the said perforation. After the clip has been placed in its said normal position with the free end portions 10 of the said arms disposed within the hollow cap, I slide into the latter a locking member, which member in the embodiment of Fig. 2 consists of the inner cap 11, which inner cap is provided with the customary shoulder formations 12 abutting against the extreme end of the pen-holder section to house the pen 13 and thereby prevent a leakage of the ink when the pen is in other than an upwardly directed vertical position. The said inner cap 11 is equipped at its closed end with a pair of lugs or extensions 13 of such general shape in section as to correspond to the angle formation of the extensions 10 and the adjacent portions of the arms carrying the same, as illustrated in Fig. 3. The surfaces of the extensions 13 facing the upper surface of the extensions 10 are disposed at an angle to the common axis of the main cap 1 and the inner cap 11, so that the said under surface 14 and the upper surface of the extensions 10 will coact as cam surfaces when the inner cap 11 is forcibly slid into position, thereby drawing the arms 9 inwardly of the cap 1 and causing the toe or heel 8 of the clip to bear tightly against the outer sur-

face of the main cap. While the inner cap is thus being slid into position, the forward edges of the arms 9 will abut against the adjacent wall 15 of the said perforation to prevent relative motion of the clip member and the cap longitudinally of the latter, so that the said clip member may be firmly anchored in position by simply inserting the arm portions thereof through the perforation in the main cap and forcibly sliding the inner cap into position, it being evident that the said cam formation will enable the assembled parts to compensate for any irregularities in the sizes or shapes of the respective parts.

Instead of using a pair of arms upon the clip member, the latter may be provided with a single end portion or arm 16 entering the interior of the cap and equipped with a rearwardly directed extension 17 adapted to engage a portion of the locking member. Moreover, this locking member need not be an integral portion of the inner cap of the pen, but may be a separate member, such as the washer 18 of Figs. 4 and 5, which washer is provided with a perforation presenting a sloping wall 20 to the upper surface of the said end portion 17 of the clip member. In this case, the entire forward surface of the main arm 16 may abut against the adjacent portion of the cap 1 to prevent relative longitudinal motion of the clip member with respect to the cap in one direction, while the locking member 18 may be forcibly slid into engaging relation to the portion 17 of the clip by slidably inserting an inner cap 19, which inner cap abuts at its forward end against the said locking member as shown in Fig. 4.

In either case, I preferably prevent the locking member of the device from a slidable retraction by means independent of the said arms of the clip, such as a drop of glue applied either to the interlocking portions 13 or 18, or to the inner cap 11 or 19, or both. I also preferably form the free end 7 of the clip member integral with the shank and arms of the said member; however, I do not wish to be limited to this or other details of the embodiment herein disclosed, it being evident that the same might be varied in many ways without departing from the spirit of my invention.

I claim as my invention:

1. A fastener for a fountain pen cap having a perforation in its side, comprising a resilient clip disposed longitudinally of the cap upon the outer surface thereof and equipped intermediate of its ends with a pair of arms integral with said clip and extending through the said perforation into the interior of the cap and laterally engaging the walls of the said perforation; a locking member slidably inserted in the cap, the said locking member and the said arms equipped with relatively interlocking formations for preventing the retraction of the said arms through the said perforations; and means independent of the said arms for preventing the said member from sliding with respect to the cap.

2. A fountain pen having an outer and an inner cap, said inner cap having an extension interposed between the closed ends of the said caps and said outer cap having a lateral perforation therein; and a resilient clip disposed upon the exterior of the outer cap and equipped with a pair of arms extending through the said perforation into the space between the closed ends of the said outer and inner caps, the said arms equipped at their free ends with oppositely disposed extensions, the said extension upon the inner cap slidably interlocking with the said extensions of the arms to prevent retraction of the said arms through the said perforation.

3. A fountain pen having an outer cap and an inner cap, the said outer cap equipped with a lateral perforation; a retaining clip disposed upon the exterior of the outer cap and equipped with a pair of arms extending through the said perforation into the space between the closed ends of the said caps, the said arms equipped at their free ends with oppositely directed angle formations, the said inner cap equipped at its closed ends with a pair of projections adapted respectively to be slidably interposed between one of the said angle formations, and an adjacent portion of the outer cap, whereby the said projections will coact with the said angle formations to hold the clip in operative position.

4. A fountain pen having an outer cap and an inner cap, the said outer cap equipped with a lateral perforation; a retaining clip disposed upon the exterior of the outer cap and equipped with a pair of arms extending through the said perforation into the space between the closed ends of the said caps, the said arms equipped at their free ends with oppositely directed angle formations, the said inner cap equipped at its closed ends with a pair of projections adapted respectively to be slidably interposed between one of the said angle formations and an adjacent portion of the outer cap, whereby the said projections will coact with the said angle formations to hold the clip in operative position; the said projections and angle formations presenting coöperating cam formations adapted to draw the said arms inwardly of the outer cap to force the portion of the clip adjacent to the said arms tightly against the exterior of the outer cap.

5. A fastener for a fountain pen cap having a perforation in its side, comprising a resilient clip disposed longitudinally of the cap upon the outer surface thereof and equipped intermediate of its ends with a

pair of arms extending through the said perforation into the interior of the cap; a locking member slidably inserted in the cap, the said locking member and the said arms equipped with relatively interlocking formations for preventing the retraction of the said arms through the said perforation, the said interlocking formations presenting cam formations coöperating upon insertion of the locking member to draw the portion of the clip adjacent to the said arms toward the cap; and means independent of the said arms for preventing the said member from sliding with respect to the cap.

6. A fountain pen cap and clip combination comprising a hollow cap equipped with a lateral perforation, a resilient clip disposed upon the surface of said cap, and means for securing said clip to said cap; the said means including at least one arm integral with said clip and extending through said perforation into the interior of the cap, a portion of said arm abutting against a portion of the cap to prevent relative movement of the said cap and clip in one direction longitudinally of the cap; and a locking member slidably housed by the cap, the said member and arm presenting opposed cam formations coöperating with the said abutting portion of said arm upon insertion of the said locking member to draw and maintain an exposed portion of the clip firmly against the exterior of the cap.

7. A fountain pen cap and clip combination comprising a hollow cap equipped with a lateral perforation, a resilient clip disposed upon the surface of said cap, and means for securing said clip to said cap; the said means including at least one arm integral with said clip and extending through said perforation into the interior of the cap, a portion of said arm abutting against a portion of the cap to prevent relative movement of the said cap and clip in one direction longitudinally of the cap; a locking member slidably housed by the cap, the said member and arm presenting opposed cam formations coöperating with the said abutting portion of said arm upon insertion of the said locking member to draw and maintain an exposed portion of the clip firmly against the exterior of the cap; and means independent of the said arm for preventing a slidable retraction of the said locking member from the cap.

In testimony whereof I have signed my name in presence of two subscribing witnesses.

ALBERT SCHEIBLE.

Witnesses:
M. M. Boyle,
G. M. Neville.