

G. M. KRAKER.
 CLIP FOR FOUNTAIN PENS.
 APPLICATION FILED JUNE 13, 1914.

1,111,469.

Patented Sept. 22, 1914.

Fig. 1.

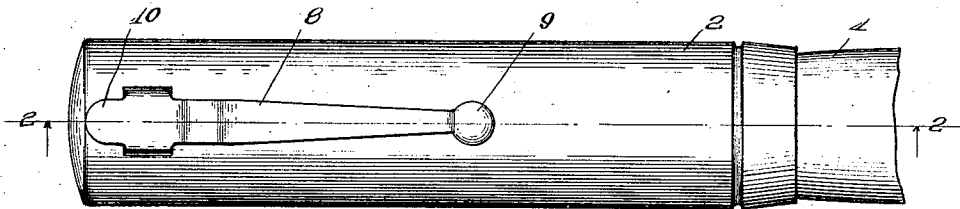


Fig. 2.

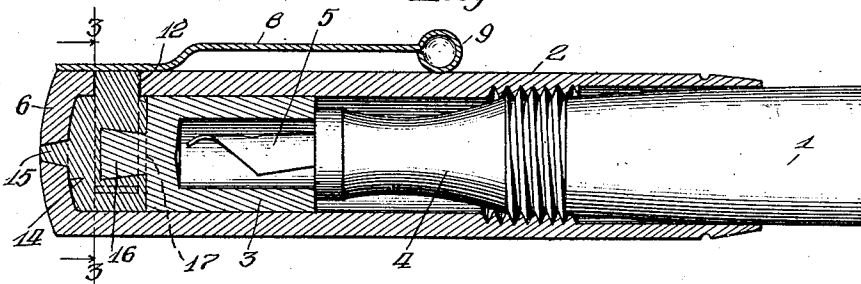


Fig. 3.

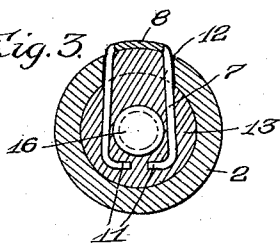


Fig. 4.

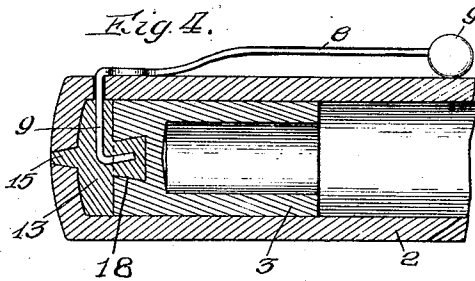


Fig. 5.

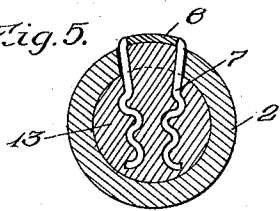
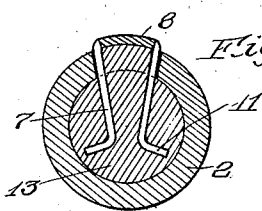


Fig. 6.



Witnesses:

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UNITED STATES PATENT OFFICE.

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CLIP FOR FOUNTAIN-PENS.

1,111,469.

Specification of Letters Patent.

Patented Sept. 22, 1914.

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To all whom it may concern:

Be it known that I, GEORGE M. KRAKER, 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 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 fountain pen constructions and more particularly to means for anchoring parts of such pens in operative relation to the adjacent portions of the pen casing, one of its objects being to provide anchoring means which will be simple, cheap and easily applied.

Another object of my invention is to provide a clip designed for retaining a fountain pen in a pocket and to provide simple, cheap and effective means for anchoring such a clip in operative position with respect to a portion of the casing of the fountain pen.

Still another object is to provide means for simultaneously anchoring a clip of the class described and an inner cap so as to retain both thereof in fixed position with respect to the cap member of the casing of a fountain pen.

Further objects will appear from the following description and from the accompanying drawings, in which—

Figure 1 is a fragmentary plan view of the cap end of a fountain pen embodying my invention. Fig. 2 is a fragmentary longitudinal section through Fig. 1. Fig. 3 is a transverse section through Fig. 2 along the line 3—3. Fig. 4 is a fragmentary longitudinal section through the cap end of a fountain pen showing another embodiment of my invention. Figs. 5 and 6 are transverse sections similar to Fig. 3, but showing alternative designs of the clip member.

In the drawings, my invention is shown as applied to a fountain pen having a main barrel 1 and a cap 2 threaded thereon, the said cap housing an inner cap 3 abutting at its rear end against the pen-carrying section 4 carrying the pen 5. The cap 2 is provided at one side near its forward end 6 with a lateral aperture 12 permitting the entrance into the bore of the said cap of a pair of arms 7 forming portions of the clip

member of the fountain pen. The clip member in the embodiment of Figs. 1, 2 and 3 comprises an outer shank 8 extending longitudinally of the cap of the pen and equipped at its rear end with a hollow ball 9 normally pressed against the surface of the said cap by the resiliency of the shank 8, which shank 8 preferably has a toe portion 10 extending forwardly beyond the forward wall of the said lateral aperture in the cap of the pen. The arms 7 are preferably formed integral with the shank 8 and the ball tip 9 and preferably have one or more bends formed therein, as for example, the opposed arms 11 of Figs. 4 and 6. It will be obvious from Fig. 3 that the said arm portions of the clip member may readily be slipped into their normal position within the bore of the cap 2 through the lateral opening 12, for which purpose the end portions of the said arms may be pressed toward each other during the insertion of the said tip portions thereof. To prevent a retraction of the said arms after the clip member has been placed in its normal position with the toe 10 engaging the outer surface of the cap 2, I fill the spaces between the inner arms of the clip member and the adjacent wall portions of the forward end of the cap with a temporarily yielding filling 13 of a material which is normally hard but which may be rendered plastic and poured or otherwise introduced into the forward end of the cap 2 while in a plastic or liquid state; as for example, litharge mixed with glycerin, plaster of paris, sealing wax, or cement.

To avoid the retention of air bubbles within the forward end of the cap, which bubbles would cause a lack of solidity and possibly a deficient rigidity of the anchoring material after the hardening of the latter, the said material may be stirred with a slender instrument after being poured into the cap, although I preferably provide the said cap at its forward end with an aperture 15 through which the air therefrom may be expelled. The said aperture is preferably made tapering with its larger end facing the interior of the cap, so that if pressure is brought against the filling material while in a plastic or otherwise yielding state by then introducing the inner cap 3, any surplus of the filling material may be forced out of the forward end of the cap through the said

aperture 15. In this case, a little of the filling material will show at the outer end of the said aperture, hence the said material should be colored to match the rubber of the cap. Moreover, by equipping the inner cap 3 at its forward end with a suitably shaped projection 16, I can cause the said projection to enter the plastic mass of the filling material and to be anchored therein simultaneously with the anchoring of the arms 7 of the clip member of the pen, so that when the rigid and unyielding filling material 13 hardens, it will retain both the clip and the inner cap in their normal operative positions.

It will be obvious that by using normally hard and incompressible anchoring means which may be introduced in liquid or plastic form, I can compensate for any irregularities in the size of the bore of the cap member and likewise for any irregularities in the shape and size of such portion of the clip member as extends into the interior of the cap. Moreover, I am able to widely vary the general shape and arrangement of the various parts with substantially equal facility. For example, instead of providing the clip member with a pair of opposed arms entering the cap, as in Figs. 3, 5 and 6, the said clip member may be equipped with a single inwardly projecting arm as shown in Fig. 4. Likewise, instead of equipping the inner cap element of the pen with an extension at its forward end, I may provide the same with a forwardly directed pocket adapted to receive a portion of the filling material and simultaneously to receive the extreme edge portion of the clip member, as in Fig. 4. In either case, it will be evident that the portion of the aperture 12 not occupied by the filling 13 will anchor the said filling against movement with respect to the outer cap, and likewise that the tapering formation of the projection 16 or pocket 18 will cause the said filling to prevent relative movement of the inner cap with respect to the filling. Consequently, the filling material will simultaneously and firmly anchor both the clip and inner cap members with respect to the cylindrical member 2.

I claim as my invention:

1. A fountain pen and clip combination, comprising a hollow pen cap equipped near its closed end with a lateral aperture, a clip member having a main portion disposed upon the exterior of said cap and equipped with at least one arm extending through the said aperture into the interior of the cap; and a plug of an unyielding set plastic material completely embedding the said arm and substantially filling the closed end portion of the said cap.

2. A fountain pen and clip comprising in combination, a hollow pen cap equipped with a lateral aperture, a clip member hav-

ing a main portion disposed upon the exterior of the cap and equipped with a pair of arms extending through said aperture into the interior of the cap, projections at the outer ends of said arms angularly disposed relatively thereto and extending in respectively opposite directions, and anchoring means filling the space between the said arms and filling the spaces between the said oppositely directed projections and the contiguous walls of the cap adjacent to said aperture.

3. A fountain pen and clip comprising in combination, a hollow pen cap equipped with a lateral aperture, a clip member having a main portion disposed upon the exterior of the cap and equipped with a pair of arms extending through said aperture into the interior of said cap, projections on the outer ends of said arms angularly disposed relatively thereto and extending in respectively opposite directions, and anchoring means filling the space between the main portions of said arms and filling the space between said oppositely directed projections and the contiguous portions of the wall of the cap adjacent to the said aperture, the latter of less width than the distance between the outer ends of said projections to permit the same to be contracted to allow the insertion of the said oppositely directed projections thereof through said aperture.

4. A fountain pen including an outer cap equipped at its closed end with a lateral aperture, a clip member equipped with at least one arm extending through the said aperture into the interior of the said outer cap, an inner cap positioned within the said outer cap, and a plug of unyielding set plastic material interposed between the closed ends of the said caps and completely embedding the said arm.

5. A fountain pen including an outer cap equipped at its closed end with a lateral aperture, a clip member equipped with at least one arm extending through the said aperture into the interior of the said outer cap, an inner cap positioned within the said outer cap, and a plug of unyielding material interposed between the closed ends of the said caps and housing the said arm, the said plug consisting of a set plastic material introduced into its said position while plastic, there being a perforation in the closed end of said outer cap into which said plug projects.

6. A fountain pen clip comprising in combination, a hollow pen cap equipped near its closed end with a lateral aperture, a clip member having a main portion disposed upon the exterior of said cap and equipped with at least one arm between its ends extending through the said aperture into the interior of the cap, and a plug of an unyielding set plastic material completely em-

bedding the said arm and substantially filling the closed end portion of the said cap.

7. A fountain pen and clip comprising in combination, a pen cap provided in its circumferential wall contiguous to its closed end with an opening, a clip member resting upon the outer circumferential wall of the cap and having a projection extending into the cap through said opening, a plug adapted to be inserted into the open end of the cap and providing a chamber in the closed end portion thereof, a filling of a set plastic in said chamber embedding said projection, and a formation on the inner end of said plug affording an interlocking engagement with said set plastic.

8. A fountain pen and clip comprising in combination, a pen cap provided in its circumferential wall contiguous to its closed end with an opening, a clip member resting

upon the outer circumferential wall of the cap and having a projection extending into the cap through said opening, a plug adapted to be inserted into the open end of the cap and providing a chamber in the closed end portion thereof, a filling of a set plastic in said chamber embedding said projection, and a formation on the inner end of said plug affording an interlocking engagement with said set plastic, the latter projecting into said opening through which said projection extends.

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

GEORGE M. KRAKER.

Witnesses:

LELA M. LACY,
H. G. CRAIG.