

N° 8198



A.D. 1915

(Under International Convention.)

Date claimed for Patent under Patents and Designs Act, 1907, being date of first Foreign Application (in the United States), } 13th June, 1914

Date of Application (in the United Kingdom), 2nd June, 1915

At the expiration of twelve months from the date of the first Foreign Application, the provision of Section 91 (3) (a) of the Patents and Designs Act, 1907, as to inspection of Specification, became operative

Accepted, 11th Nov., 1915

COMPLETE SPECIFICATION.

Improvements in or relating to Fountain Pens.

I, GEORGE MICHAEL KRAKER, of 436, Gibraltar Building, Kansas City, Jackson County, State of Missouri, United States of America, Salesman, do hereby declare the nature of this invention and in what manner the same is to be performed, to be particularly described and ascertained in and by the following statement:—

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.

Figure 2 is a fragmentary longitudinal section through Figure 1.

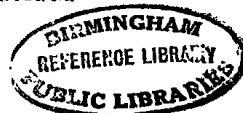
Figure 3 is a transverse section through Figure 2 along the line 3—3.

Figure 4 is a fragmentary longitudinal section through the cap end of a fountain pen showing another embodiment of my invention.

Figures 5 and 6 are transverse sections similar to Figure 3, 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

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Kraker's Improvements in or relating to Fountain Pens.

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 Figures 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 Figures 3 and 6. It will be obvious from Figure 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 while in a plastic or liquid state; as for example, litharge mixed with glycerine, 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 Figures 3, 5 and 6, the said clip member may be equipped with a single inwardly projecting arm 19 as shown in Figure 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 Figure 4. In either case, it will be evident that the portion of the aperture 12 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

Kraker's Improvements in or relating to Fountain Pens.

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.

Having now particularly described and ascertained the nature of my said invention and in what manner the same is to be performed, I declare that what I claim is:—

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 the cap and provided with at least one arm extending through said aperture into the interior of the cap, and a plug of unyielding material, housing the said arm and substantially filling the closed end portion of the said cap.

2. A fountain pen comprising an outer cap provided at its closed end with a lateral aperture, a clip member provided with one or more arms 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 or arms for the purpose specified.

3. A fountain pen having a clip member provided with a pair of arms projecting through an aperture in a hollow pen cap, said arms having projections on the outer ends thereof angularly disposed in relation thereto and anchoring means filling the space between said arms and filling the spaces between said projections and the contiguous walls of the cap adjacent to the said aperture for the purpose specified.

4. A fountain pen in accordance with the preceding claim wherein the projections on said arms extend in relatively opposite directions.

5. A fountain pen in accordance with Claim 1 or 2 wherein the said plug consists of a set of plastic material, introduced into its position while plastic, there being a perforation in the closed end of the outer cap into which said plug projects.

6. A fountain pen in accordance with Claim 1 or 2 comprising a plug adapted to be inserted into the open end of this cap and providing a chamber into which said arm projects, a filling of a set plastic material in said chamber embedding said projection, and a formation on the inner end of said plug affording an interlocking engagement with said set plastic material for the purpose specified.

7. A fountain pen and clip combination constructed and arranged substantially as herein described with reference to the accompanying drawings.

Dated this 2nd day of June, 1915.

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HASELTINE, LAKE & Co.,
28, Southampton Buildings, London; England, and
55, Liberty Street, New York City, U.S.A.,
Agents for the Applicant.

[This Drawing is a reproduction of the Original on a reduced scale.]

