

UNITED STATES PATENT OFFICE.

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FOUNTAIN PEN.

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My invention relates to fountain pens, and more particularly to a fountain pen, the barrel and cap of which are made of metal.

The nature of the invention resides in the peculiar construction of the cap adapted to enclose the pen section when not in use. It has been applicant's experience that the frequent screwing of the cap on and off the barrel causes that portion of the pen barrel immediately below the threads, which are adapted to receive the threads of the cap, to become scratched or otherwise marred due to the tight fit between the pen barrel and the open end of the cap.

In the construction of fountain pens of the all metal type made of gold, silver, gold filled, sterling, etc. such a marred or scratched surface upon the pen is noticeable and detracts materially from the appearance of an all metal pen. The fountain pens of this class that are manufactured today are handsomely designed and leave nothing wanting in the way of artistic beauty. However, the pen is primarily purchased for its utility and the beauty is only the secondary object, consequently the use of a fountain pen will occasion the unscrewing of the cap from the pen barrel, and inasmuch as the cap fits snugly about that end which it encloses when not in use, the friction between the open end of the cap and that part of the barrel with which it comes in contact, will become worn and dull and leave circumferentially extending marks around that portion of the barrel. Applicant's invention is directed to eliminate this defect, without in any manner, changing the outward appearance of the barrel which is simple of construction from the viewpoint of manufacture.

The invention consists in certain details in the construction, arrangement and combination of various parts of the device whereby the objects contemplated are attained, as hereinafter more fully set forth, pointed out in the claims, and illustrated in the accompanying drawings in which:

Fig. 1 is a view of the barrel in elevation and partly in section exemplifying my invention, and

Fig. 2 is an enlarged longitudinal sectional view of my improved cap.

In the drawings the numeral 10 indicates the metal barrel of a fountain pen deflected inwardly at its forward end to receive the pen section 11 in which is held the pen point

12. These parts may be of any suitable or usual construction. The extreme forward end of the pen barrel is threaded as at 13, and a main or outer cap 14 made of very thin metal is provided. Within the main cap 14 is a supplemental cap 15, being constructed in two sections, the rear section 16 being dimensioned to snugly fit within the main cap 14. The forward section 17 is threaded interiorly near its open end, said threads being adapted to mesh with the threads on the barrel 10. Intermediary the ends of the section 17, a shoulder 18 is formed to act as a seat for the rear section 16. Section 17 at this point extends upwardly within the section 16 terminating at its rear end in an enlarged flanged portion 19, the purpose of which will be described hereinafter. The thickness of the section 17 between the shoulder 18 and flanged portion 19 together with the thickness of the section 16 is equivalent to the thickness of the section 17 below the shoulder 18. Consequently the joining of these two sections together leaves a plain circumferential surface.

The supplemental cap 15, consisting of the two sections 16 and 17, is placed within the main cap 14 and permanently held therein by soldering or any other desired means, the open end of said supplemental cap terminating a distance short of the open end of the main cap 14 as is illustrated in Fig. 1.

The section 17 is formed of soft metal, preferably aluminum or copper, and when the supplemental cap is positioned within the main cap 14 and it is desired to enclose the pen section with the cap, the threads in the aluminum section 17 will mesh with the threads 13 on the barrel 10, and the extreme open end of the section 17 will contact with the contiguous surface of said barrel 10, and due to the fact that the metal used in section 17 is softer than the metal generally used in the construction of all metal pen barrels, it will not scratch the barrel or otherwise mar it. The main cap 14 which of necessity will be constructed of the same metal from which the barrel 10 is made, will not directly come in contact with the barrel 10, thus eliminating any possibility of scratching the outer surface of the barrel 10.

The flange 19 formed at the rear end of the section 17, together with the section 16, form a housing member for the pen nib when the cap is placed upon the pen, thus

the placing of the main cap over the pen causes the supplemental cap to enclose the pen point 12, and the screwing of said supplemental cap on the screw threaded portion 13 of the barrel will bring the end of the pen section 11 hard against the flanged portion 19, thereby making an absolutely tight joint and relieving the possibility of any ink escaping into the main cap if by accident the pen should be turned bottom side up.

I wish it understood that various changes in the construction and arrangement of the parts may be resorted to without departing from the spirit of the invention which is expressed in the appended claims.

While I have described my invention which resides in the supplemental cap as containing two sections, it is understood that the supplemental cap 15 can be of one piece drawn from any of the softer metals.

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

1. A metal cap for fountain pens comprising an outer metal cap portion, and a supplemental metal cap portion within the outer cap portion and formed of two sections, the section of the supplemental cap which is adapted to engage a pen barrel being formed of a relatively nonabrasive metal.

2. A metal cap for fountain pens comprising an outer metal cap portion, a supplemental metal cap portion formed of two sections one of which fits snugly within the outer cap portion, the other section being

positioned to engage the barrel of a fountain pen, said last mentioned section being formed of a relatively nonabrasive metal and having a portion projecting into the first mentioned supplemental cap section.

3. A metal cap for fountain pens comprising an outer metal cap portion, a supplemental metal cap portion formed of two sections one of which fits snugly within the outer cap portion, the other section being positioned to engage the barrel of a fountain pen, said last mentioned section being formed of a relatively nonabrasive metal and having a portion projecting into the first mentioned supplemental cap section, the combined thickness of the walls of the two supplemental cap sections where they overlap being approximately the same as the thickness of that portion of the wall of the second section which protrudes from the first section.

4. A metal cap for fountain pens comprising an outer metal cap portion, a supplemental metal cap portion formed of two sections one of which fits snugly within the outer cap portion, the other section being positioned to engage the barrel of a fountain pen, said last mentioned section being formed of a relatively nonabrasive metal and having a reduced portion fitting within the first mentioned section and provided with a shoulder complementary to the open end of the first mentioned section.

In witness whereof, I have hereunto subscribed my name.

JOHN C. WAHL.