

March 19, 1946.

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2,396,866

CAP FASTENING MEANS FOR FOUNTAIN PENS

Filed Dec. 9, 1944

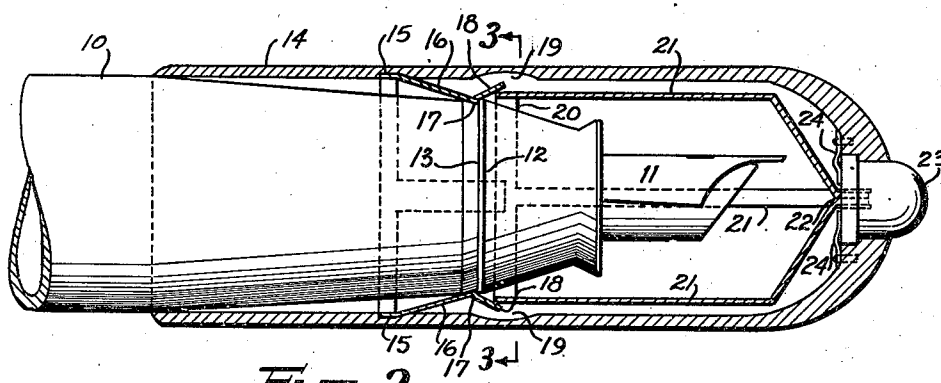


Fig-2

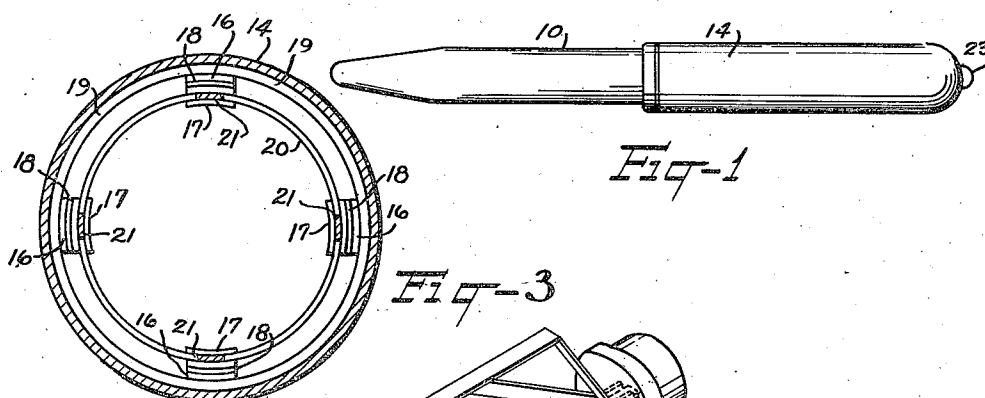


Fig-1

Fig-3

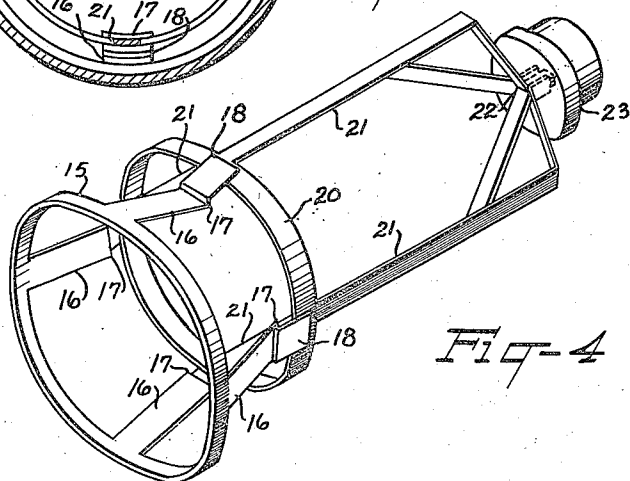


Fig-4

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2,396,866

CAP FASTENING MEANS FOR FOUNTAIN
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Application December 9, 1944, Serial No. 567,363

3 Claims. (Cl. 120—42)

This invention relates to a fountain pen and more especially to a fountain pen having means for releasing and locking the cap which covers the pen point when the pen is not in use so that it cannot accidentally become unfastened while being carried in the pocket of the owner.

It is an object of this invention to provide a fountain pen having a cap provided with means adapted to engage a peripheral groove in the fountain pen barrel to releasably lock the cap on the fountain pen barrel so that it cannot become detached from the fountain pen barrel until a button is pressed to release the locking means, which are on the interior of the cap, from engagement with a shoulder on the barrel of the fountain pen so that the cap can be removed.

Some of the objects of the invention having been stated, other objects will appear as the description proceeds when taken in connection with the accompanying drawing in which,

Figure 1 is an elevation of a fountain pen equipped with my invention;

Figure 2 is a longitudinal section view taken through the right hand portion of Figure 1 and showing the fountain pen barrel in elevation;

Figure 3 is a transverse sectional view taken along the line 3—3 in Figure 2;

Figure 4 is an isometric view of the fastening means removed from the interior of the cap.

Referring more specifically to the drawing, the numeral 10 indicates the barrel of a fountain pen having a conventional point 11. The barrel of the pen is conventional in every respect except that it has peripheral enlargement at 12 which provides immediately behind this enlargement 12 a groove 13.

The cap of the fountain pen is indicated at 14 and on the interior thereof has imbedded in the inner surface a band 15 which has extending forwardly therefrom a plurality of prongs 16 which have shoulders 17 thereon and outwardly sloping portions 18. The interior of the barrel, if desired, may be cut away slightly by longitudinal grooves 19 to allow outward expansion of these outwardly flaring portions 18. The pen cap 14 when slipped over the barrel of the fountain pen and fastened by friction or by screwing the same thereon, when it has reached a predetermined point, will cause the shoulders 17 to drop down into the groove 13 and releasably lock the cap 14 in position.

For unlocking these prongs 16 from the groove 13 so they will pass over the shoulder 12, I have provided a circular band or ring 20, with a plurality of members 21 extending longitudinally of the pen and the merging into one portion as at 22, and this portion 22 is fixed securely in a button 23 mounted in the top or closed end of the cap 14. A pair of leaf springs 24 may be

provided on the interior of the cap for normally holding the parts in the position shown in Figure 2, and which will give way when button 23 is pressed to the left of Figure 2 to allow the whole assembly of ring 20 and portions 21 to move downwardly with respect to the sloping portions of members 18 to expand them all outwardly so that the cap can be removed from the fountain pen.

In the drawing and specification there has been set forth a preferred embodiment of the invention, the scope of the invention being defined in the claims:

I claim:

1. In a fountain pen having a barrel portion and a cap member, the barrel portion having a peripheral groove therein forming a shoulder on one side thereof adjacent the pen point end of the barrel, the cap member having secured on its interior surface a plurality of shoulder members which are resiliently pressed normally into the peripheral groove when the cap is inserted over the barrel portion of the fountain pen, slidable means mounted in the cap and adapted to engage the shouldered members to press them outwardly to allow the cap to be removed from the barrel of the fountain pen, the slidable means having a projecting portion extending through an opening in the cap, whereby the slidable means can be manipulated from outside the cap.

2. In a fountain pen having a barrel portion and a cap portion, adapted to cover that end of the barrel portion having the pen point therein, the barrel portion having a peripheral shoulder thereon, the cap portion having on the interior thereof a plurality of inwardly projecting prongs having a shoulder near their free ends adapted to press in behind the shoulder on the barrel when the cap is inserted over the end of the barrel portion, and means slidably mounted in the closed end of the cap and extending from the exterior of the cap and adapted to engage the inwardly projecting shoulder members for pressing the same outwardly to a position where the shoulder members will become disengaged from the shoulder on the barrel portion so that the cap can be removed from the barrel portion of the fountain pen.

3. A fountain pen having a barrel portion and a cap portion, means on the interior of the cap portion for engaging the barrel portion and releasably locking the cap portion on the barrel portion, and means slidably mounted inside the cap portion and extending to the exterior of the cap portion and adapted to be pushed inwardly to move the locking means out of engagement with the barrel portion to permit the cap to be removed.

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