

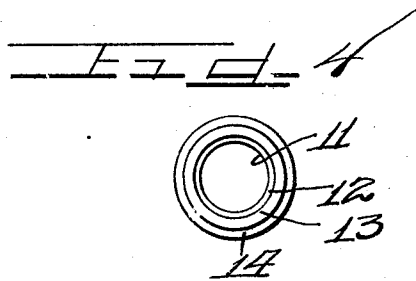
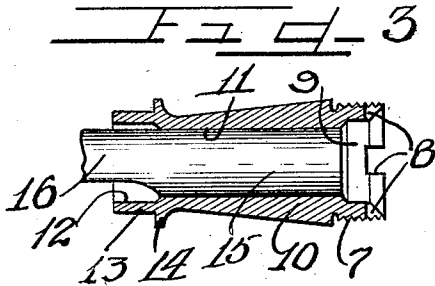
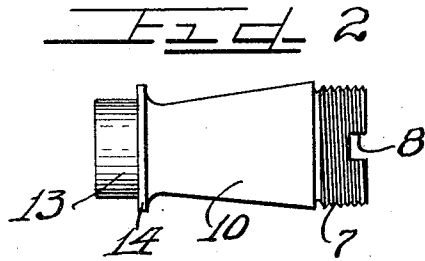
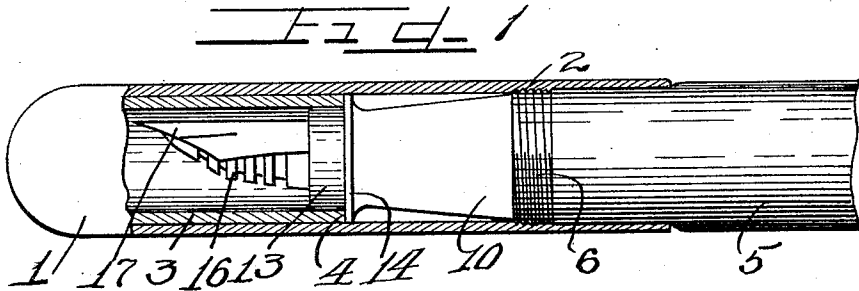
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FOUNTAIN PEN SECTION

Filed March 29, 1930



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## UNITED STATES PATENT OFFICE

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## FOUNTAIN PEN SECTION

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In all makes of fountain pens, considerable difficulty and annoyance have been occasioned, due to the fact that when a fountain pen has been in use, there is always a certain amount of ink which has been discharged from the barrel and which remains around the outer end of the feed bar and in the pen point which cannot find its way back into the fountain pen barrel, and, consequently, accumulates or settles around the feed bar and pen point shank in the recess provided in the flanged or outwardly flared mouthpiece at the outer end of the fountain pen section which forms one end of the fountain pen barrel or housing. The excess ink thus settling or accumulating in the pocket at the end of the section accumulates on the section stop flange or mouthpiece, making the same unsightly and dirty, so that, when the fountain pen cap is engaged over the section end of the fountain pen barrel or body, the end of the stop sleeve or shoulder provided in the cap seats directly against the mouthpiece or section flange against the accumulation of excess ink, thereby causing the excess ink not only to dirty the end of the section but also to adhere to the shoulder within the fountain pen cap and thereby dirty the interior of the cap, as well as the fountain pen section. It will thus be noted that the amount of excess ink is spread around to various parts of the fountain pen and is even carried and spread around the inner walls of the cap, so that, when the same is again inserted over the section and on a portion of the fountain pen barrel, the excess ink is sometimes smeared or applied to the section, so that, when the fountain pen is again put into use, the hands of a user become stained with excess ink, causing the user considerable annoyance and making it necessary not only to wash and clean the various parts of the fountain pen, but also necessitates the washing of the hands of the user as well.

To obviate the above defects in fountain pens of substantially all previous makes, this invention has been devised for the purpose of providing an improved fountain pen section adapted to be used in any make of fountain pen and being so constructed that the outer

end of the section affords a pocket or recess for the receiving of excess ink from the feeder bar and pen point after a fountain pen has been in use, with said excess ink-receiving pocket being positioned remote from the section stop flange, keeping said stop flange absolutely free from excess ink accumulation, so that, when a fountain pen cap is engaged over the writing end of a fountain pen, the shoulder within the cap is adapted to seat against a clean stop flange of the section, thereby obviating the spreading of the excess ink to the various parts of the fountain pen.

It is an object of this invention to provide an improved fountain pen section, the outer end of which is provided with a sleeve extension projecting beyond the cap stop flange of the section and providing a recess or pocket for the reception of excess ink flowing back from the outer end of the feed bar and the pen point after a fountain pen has been in use.

It is also an object of this invention to provide an improved fountain pen section, the outer end of which is provided with a recess or pocket for the reception of excess ink flowing back from the fountain pen feed bar and pen point, with said pocket being remote from the stop flange formed on the section to keep the same clean and free from ink accumulation, affording a clean seat for the stop shoulder provided within the fountain pen cap.

It is a further object of this invention to provide an improved fountain pen section constructed to afford a pocket for the reception of excess ink flowing back from the feed bar and pen point of a fountain pen, with said pocket being remote from the fountain pen cap stop flange of the section to afford an improved arrangement whereby the various parts of the fountain pen and cap are kept clean.

It is furthermore an object of this invention to provide an improved simplified form of fountain pen section wherein the outer end thereof is provided with an extension recessed to afford an ink-receiving pocket around the pen feed bar and pen point to receive unused ink therefrom and hold said ink out of contact with the stop flange provided

on the section against which the shoulder within the fountain pen cap is adapted to seat, thereby obviating the spreading or smearing of the excess ink to parts of the fountain pen with which the hand of a writer is usually brought in contact.

It is an important object of this invention to provide an improved, simplified and inexpensive type of fountain pen section which is constructed with a special receiving pocket for excess ink returned from the fountain pen feed bar and pen point after the pen has been in use, to obviate the spreading of the returned excess ink accumulation, thereby keeping the various parts of the fountain pen and the interior of the fountain pen cap free from ink, and furthermore obviating the staining of the hands of a user of the fountain pen.

Other and further important objects of this invention will be apparent from the disclosures in the specification and the accompanying drawing.

The invention (in a preferred form) is illustrated in the drawing and hereinafter more fully described.

On the drawing:

Figure 1 is an enlarged fragmentary elevational view of the pen point end of a fountain pen equipped with an improved fountain pen section embodying the principles of this invention and showing the fountain pen cap in position, and partly in section, enclosing the fountain pen section with the cap shoulder seating against the section stop flange.

Figure 2 is an enlarged side elevation of an improved fountain pen section embodying the principles of this invention.

Figure 3 is a longitudinal sectional view of the fountain pen section, showing a fragmentary portion of a fountain pen feed bar engaged therein and shown in elevation.

Figure 4 is an end view of the improved fountain pen section.

As shown on the drawing:

The reference numeral 1 indicates a fountain pen cap provided with an internal threaded section at 2, a short distance from the open end thereof, and having rigidly secured in the closed end thereof a sleeve 3, the outer end of which affords a stop shoulder 4. The cap 1 is adapted to be removably engaged over one end of a fountain pen barrel or housing 5, the outer end of which is externally threaded at 6 for the reception of the threaded section 2 formed within the cap 1, as clearly illustrated in Figure 1. The threaded end of the fountain pen barrel or housing 5 is also internally threaded to receive the externally threaded shank 7 of an improved fountain pen section embodying the principles of this invention. The section shank 7 is provided at its outer end with a plurality of equidistantly spaced openings or notches 8 provided for the purpose of permitting ink from

the interior of the fountain pen barrel 5, in certain types of fountain pens, to be admitted into the feed chamber 9 of the section shank 7. The threaded shank 7 is integrally formed on the inner end of an externally tapered section body 10, the interior of which is provided with an axial passage 11, one end of which terminates in the chamber 9 of the shank portion 7, while the opposite end communicates with the inner end of a surplus or excess ink-receiving pocket or recess 12 provided in an extension sleeve or collar 13 which is integrally formed on the outer end of the section body portion 10 to the outside of a stop ring or flange 14 integrally formed externally on the outer end of the body portion 10 where it joins the extension sleeve or collar 13. When the cap 2 is engaged on the barrel 5, as indicated in Figure 1, the shoulder 4 provided within the cap is adapted to seat against the stop flange or ring 14 of the section, with the sleeve or collar 13 projecting into the end of the sleeve 3 secured within the cap 1, so that the shoulder 4 of the cap does not come into contact with the end of the sleeve or collar 13 in which the excess ink-receiving pocket or recess 12 is formed.

Engaged in the section body portion 10 is the shank section 15 of a feed bar for the fountain pen. The feed bar shank 15 seats tightly within the passage 11 of the section body 10, as illustrated in Figure 3, and terminates at the recess or pocket 9 provided in the section shank 7. Integrally formed on the outer end of the feed bar shank 15 is a feed bar passaged head 16 which projects through the excess ink passage or chamber 12 and is partially covered by a pen point 17, the shank end of which is adapted to be rigidly secured in the body portion 10 of the fountain pen section.

The improved fountain pen section, which is constructed to provide the pocket or recess for the reception of excess or return ink from the fountain pen point and the feed bar, is adapted for use on any type of fountain pen and provides an ink guard arrangement whereby the ink pocket is positioned remote from the stop flange 14 of the section, so that the shoulder provided within the fountain pen cap 1 is adapted always to seat against a dry and clean flange or stop ring, thereby affording an arrangement whereby the interior of the cap and the exterior of the section are kept clean and free from excess ink, since the end of the ink guard extension sleeve or collar 13 which forms the housing for the excess ink recess or pocket fits into the cap liner sleeve 3 and is not in direct contact with the cap stop shoulder.

The pocketed ink guard extension 13, provided on the end of the fountain pen section beyond the stop flange or ring 14, provides an improvement which obviates any tendency of excess ink returned from the pen point and

the feeder head to come into contact with the interior of the fountain pen cap, so that the exterior surfaces of the fountain pen section are always kept clean to prevent staining of the fingers of the hand of a person using the fountain pen.

The ink guard which is formed on the section is so positioned that the outer end thereof is free from contact with any portion of the fountain pen cap. The guard is also engaged around the feed bar and the pen point beyond the stop flange seat of the section so that the excess ink on the feed bar and the pen point is not permitted to settle on the end of the ink guard but flows into the ink guard recess, from where it may gradually flow back through the ink feed groove of the feed bar into the ink supply chamber of the fountain pen. This is a very important feature, since the excess ink at no time comes into contact with the section stop flange or with the outer end surface of the ink guard.

It will, of course, be understood that various details of construction may be varied through a wide range without departing from the principles of this invention, and it is, therefore, not purposed to limit the patent granted hereon otherwise than necessitated by the scope of the appended claims.

I claim as my invention:

1. A fountain pen comprising a barrel, a cap adapted to be removably engaged over one end thereof, a shoulder formed in said cap, a section rigidly secured in one end of said barrel and having a flange formed on the outer end thereof against which the cap shoulder is adapted to seat, a collar integrally formed on the outer end of said section projecting beyond said flange and having an excess ink-receiving pocket formed therein, a feeder free from contact with the collar and projecting through said collar pocket and into the section, and a pen point engaged on said feeder and projecting through said collar and into said section.

2. The combination with a fountain pen barrel, of a section engaged therein, a stop flange formed on the outer end of said section, and an ink guard formed on said section adjacent said stop flange.

3. The combination with a fountain pen barrel, of a section engaged in one end thereof, a stop flange integrally formed on said section, a feeder and a pen point projecting into said section, an ink guard integrally formed on said section to the outside of said flange and surrounding and free from contact with said feeder and pen point, a cap removably engaged on said barrel and enclosing said section, and a sleeve secured in said cap adapted to engage around said ink guard and having a shoulder adapted to seat against said stop flange.

4. The combination with a fountain pen section, of a stop flange integrally formed

on the outer end thereof, and an ink guard integrally formed on said section to the outside of said stop flange.

5. The combination with a fountain pen section, of a notched, externally threaded shank integrally formed on one end thereof, a stop flange integrally formed on the opposite end of said section, and an ink guard integrally formed on the second end of said section and projecting beyond said stop flange.

6. A fountain pen section comprising a body portion, an externally threaded shank integrally formed on one end thereof to permit the section to be mounted, a stop flange integrally formed on the opposite end of said body portion, and a sleeve extension integrally formed on said body portion to the outside of said flange and having an ink-receiving pocket formed therein.

7. A fountain pen section comprising a passaged body portion, a chambered ink guard integrally formed on one end thereof, and a stop flange integrally formed on said section between the body portion and said ink guard.

8. The combination with a fountain pen and the cap thereof, of a stop sleeve secured in said cap, a stop flange formed on the exterior of said fountain pen adapted to be contacted by said stop sleeve, and an ink guard formed on said fountain pen adapted to project into said stop sleeve when the cap is in position to provide an ink-receiving pocket remote from said stop flange and having the end surface of said ink guard free from contact with said stop sleeve.

9. A fountain pen section comprising a passaged body portion, a chambered externally threaded shank integrally formed on the inner end thereof and having ink intake notches in the end thereof, a peripheral stop flange integrally formed on the exterior of the outer end of said body portion, and a recessed ink guard integrally formed on said body portion to the outside of said peripheral stop flange.

In testimony whereof I have hereunto subscribed my name at Chicago, Cook County, Illinois.

SOLOMON M. SAGER.

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