June 14, 1938. F. E. ANDREWS 2,120,479

BLOTTER

Original Filed Feb. 19, 1935

Fig. 1.

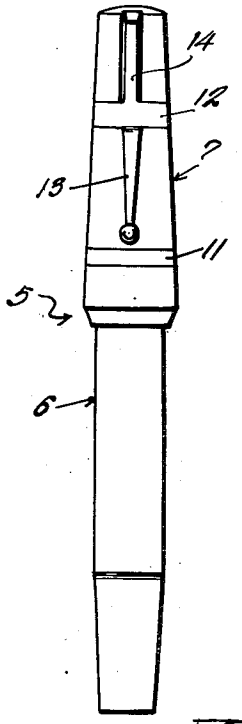


Fig. 5.

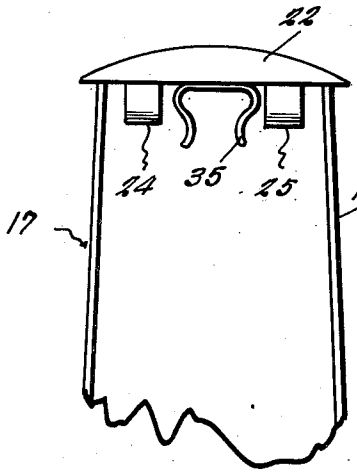


Fig. 3.

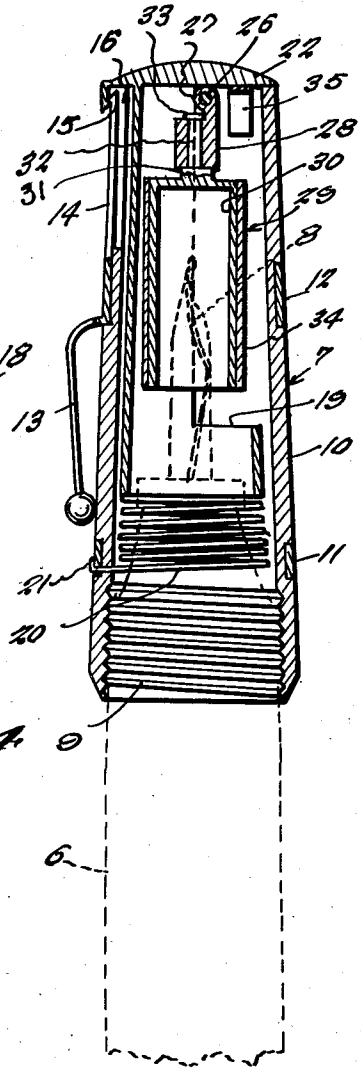


Fig. 2.

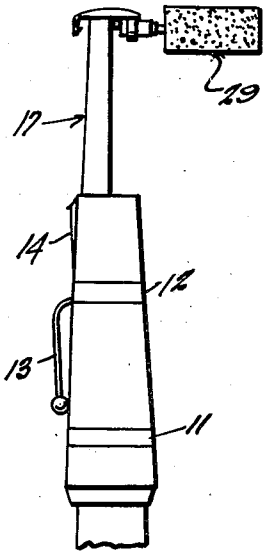
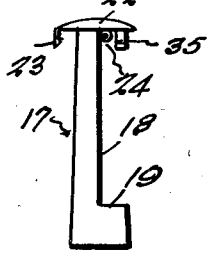


Fig. 4.



Inventor

Fred E. Andrews

By Clarence O'Brien

Attorney

Patented June 14, 1938

2,120,479

UNITED STATES PATENT OFFICE

2,120,479

BLOTTER

Fred E. Andrews, Ware, Mass.

Application February 19, 1935, Serial No. 7,297
Renewed November 15, 1937

10 Claims. (Cl. 120—26)

My invention relates generally to writing instruments and particularly to that type thereof which includes a cap for covering the writing point, and an important object of the invention is to provide a writing instrument which includes a cap which in one condition conceals and enclosures the writing point and blotter means, and in another position exposes the blotter means for use.

Another important object of my invention is to provide blotter means in a writing instrument, such as a fountain pen, which will enable the writer to have a blotter available for use without resorting to carrying an ordinary blotter, the instrument being sufficient to the purposes of writing in ink and blotting the same as required.

Another important object of my invention is to provide a writing instrument cap incorporating blotter means, the said cap being adaptable to be removed from the point of the writing instrument and at the same time conceal the blotter means.

Other objects and advantages of my invention will be apparent from a reading of the following description in connection with the drawing, wherein for purposes of illustration I have shown a preferred embodiment of my invention.

In the drawing:—

Figure 1 is a general side elevational view of a fountain pen having a cap constructed in accordance with the present invention.

Figure 2 is an elevational view taken at right angle to Figure 1 and showing the blotter means exposed and extended into operative position on the cap, with the cap still in position on the pen and protecting and concealing the writing point thereof.

Figure 3 is an enlarged vertical transverse sectional view taken through the cap and showing the relation of the cap and the blotter means to the writing point of a fountain pen, the latter being shown in dotted lines.

Figure 4 is a side elevational view of the extensible tube.

Figure 5 is an enlarged elevational view of one side of the upper part of the extensible tube viewing the same from right to left in Figure 4.

Referring in detail to the drawing, wherein like numerals refer to like parts throughout the same, the numeral 5 generally designates the present embodiment of the invention which includes the pen portion 6 and the cap portion 7.

The pen is of usual construction and has threads adjacent its writing point 8 for engaging with the corresponding threads 9 in the interior of the lower end of the cap 7. The cap 7 is an upwardly tapering tube 10 of suitable material which is provided with a lower countersunk band 11 and an upper and wider countersunk band 12. The band 12 includes a downwardly and outwardly projecting pocket clip 13 and extending from the band 12 opposite the clip 13 is the spring latch member 14 which is hooked on its upper end as indicated by the numeral 15. The latch 14 works in a longitudinal depression or slot 16 in the wall of the cap adjacent the upper end thereof.

Slidably telescoped within the cap 7 is the extensible tube which is generally designated 17 and which has a long opening 18 in one side thereof and extending through the top thereof from a point 19 spaced upwardly from the lower end thereof as shown in Figure 4. The taper of the interior of the cap 7 and of the exterior of the tube 17 is such that the extensible tube 17 may be pushed or pulled through the top of the cap 7 to a sufficient height to expose the blotter means to be described for use, yet be held by frictional engagement with the interior of the cap 7 from moving entirely out of the cap 7.

A helical spring 20 having one end passing through the wall of the cap 7 and anchored to the band 11 as indicated by the numeral 21 has its upper end secured in a suitable manner to the plain lower end of the extensible tube 17, whereby the extensible tube 17 is constantly ready to spring outwardly to an extended position such as that shown in Figure 2.

Attached to and closing the upper end of the extensible tube 17 is the ornamentally-shaped head 22 which is of a size to close the upper end of the cap 7 when the extensible tube is in the retracted position, as shown in Figure 3. One side of the head 22 has a hook detent 23 to be engaged by the hook 15 of the latch 14, whereby the extensible tube is held in the retracted position. Pressing radially inwardly on the latch 14 which has a normal radially outward tension, will release the hook 15 from the detent 23 and free the extensible tube so that its spring 20 will push the same up into the extended position illustrated in Figure 2.

Within the side walls of the extensible tube 17 and depending from the head 22 are diametrically spaced pivot ears 24, 25 which receive and mount a pivot 26 which forms the support and bearing for the lug 27 which is on the upper end of the block 28 on which the blotter is mounted. The blotter which is generally designated 29 includes the shell 30 which is open at its bottom to receive the writing point of the pen in the assembled

condition of the pen and cap illustrated in Figure 3, the shell having a closed top provided with a boss 31 and a reduced pivot 32 which is journaled in a vertical bore in the body 28 and riveted over the top of the body as indicated at 33.

The lower end of the body 28 bears against the top of the boss 31 and the riveted portion 33 on the upper end of the pivot 32 bears against the top of the body 28 so that the shell is firmly attached to the body 28 while being permitted rotation on the axis of the pivot 32.

The exterior surface of the shell 30 is covered by blotting paper or other blotting material as indicated by the numeral 34 which is to be applied to the wet writing by rolling the blotter over the surface thereof while the blotter is in the extended position shown in Figure 2.

Depending between the pivot ears 24 and 25 and attached to the underside of the head 22 of the extensible tube is a U-shaped spring retainer 35 which is adapted to receive the body 28 and hold the blotter in the generally right angular position illustrated in Figure 2 while the blotter is being used.

The blotter 29 is gotten into the position shown in Figure 2 simply by releasing the latch 14 and permitting the extensible tube to spring to its extended position. The sudden stopping of the extensible tube as it reaches its limit of movement produces the lateral outward swinging of the blotter which engages the same with the retainer 35, which holds the same in operative position sufficiently well under ordinary circumstances.

It will be obvious that the blotter is restored to the position shown in Figure 3 simply by disengaging the same from the retainer 35 and swinging the same into axial alignment with the tube 17 and then pushing on the head 22 until the latch 14 has become re-engaged with the detent 23.

Although I have shown and described herein a preferred embodiment of my invention, it is to be definitely understood that I do not desire to limit the application of the invention thereto, and any change or changes may be made in the materials and in the structure and arrangement of the parts, within the spirit of the invention and the scope of the subjoined claims.

What is claimed is:—

1. In a writing instrument cap, tubular blotting means normally lying within said cap, said blotting means being extensible from said cap for use, and spring means within said cap for projecting said blotter means to extended operative position.

2. In a writing instrument cap, tubular blotting means normally lying within said cap, said blotting means being extensible from said cap for use, and spring means within said cap for projecting said blotter means to extended operative position, and a cap clip detent on said cap for holding said blotter means in normal inoperative position.

3. In a writing instrument cap, blotter means normally lying within said cap, said blotter means being extensible from said cap for use, said blotter means comprising a member longitudinally movable in said cap, an arm pivoted to said member for lateral swinging movement, and a blotting tube rotatably mounted on said arm.

4. In a writing instrument cap, blotter means on said cap, said blotter means comprising a tubular member normally lying within said cap and extensible from said cap for use, a rotary blotter normally lying within said tubular member, pivot means connecting said blotter to said tubular member, and spring means in said cap for projecting said blotter means to extended operative position.

5. In a writing instrument cap, blotter means on said cap, said blotter means comprising a tubular member normally lying within said cap and extensible from said cap for use, a rotary blotter normally lying within said tubular member, pivot means connecting said blotter to said tubular member, and spring means in said cap for projecting said blotter means to extended operative position, said pivot means being arranged to permit said rotary blotter to move to a right angular position relative to said tubular member when said blotter means is in the extended operative position.

6. In a writing instrument cap, blotter means on said cap, said blotter means comprising a tubular member normally lying within said cap and extensible from said cap for use, a rotary blotter normally lying within said tubular member, pivot means connecting said blotter to said tubular member, and spring means in said cap for projecting said blotter means to extended operative position, said pivot means being connected to one end of said rotary blotter, said pivot means being arranged to permit said rotary blotter to swing laterally outwardly from said tubular member to operative position by momentum as said tubular member comes to a stop in its fully extended position after being projected by said spring means.

7. In a writing instrument cap, blotter means on said cap, said blotter means comprising a tubular member normally lying within said cap and extensible from said cap for use, a rotary blotter normally lying within said tubular member, pivot means connecting said blotter to said tubular member, and spring means in said cap for projecting said blotter means to extended operative position, said pivot means being connected to one end of said rotary blotter, said pivot means being arranged to permit said rotary blotter to swing laterally outwardly from said tubular member to operative position by momentum as said tubular member comes to a stop in its fully extended position after being projected by said spring means, and a releasable detent on said tubular member, said releasable detent being arranged to be engaged by said rotary blotter as said rotary blotter moves into operative position whereby said rotary blotter is retained in operative position.

8. In combination, an open ended tube, a tubular member normally lying within said tube and arranged to be partially extended from said tube, means at the outer end of said tube and at the inner end of said tubular member limiting the extension of said tubular member from said tube, spring means in said tube arranged to move said tubular member to extended position, blotter means on said tubular member and normally lying within said tubular member while said tubular member is in the unextended position, and means movably connecting said blotter means to said tubular member, said means being arranged to permit said blotter means to move relative to said tubular member by momentum into blotting position as said tubular member is projected toward extended position and is stopped by said means.

9. In combination, a cap, a member slidable in said cap, an elongated blotter pivoted at its

inner end to said member for lateral swinging away from said member, spring means on said cap for projecting said member along said cap, and stop means on said cap to engage a portion of said member to suddenly arrest the projection of said member by said spring means in a manner to cause said blotter to swing laterally outwardly to operative position by momentum.

10. In combination, a cap, a member slidable in said cap, an elongated blotter pivoted at its inner end to said member for lateral swinging away from said member, spring means on said cap for projecting said member along said cap, and stop means on said cap to engage a portion of said member to suddenly arrest the projection of said member by said spring means in a manner to cause said blotter to swing laterally outwardly to operative position by momentum, and a releasable detent on said member engageable by said blotter as said blotter swings outwardly whereby said blotter is held in operative position.

FRED E. ANDREWS.