

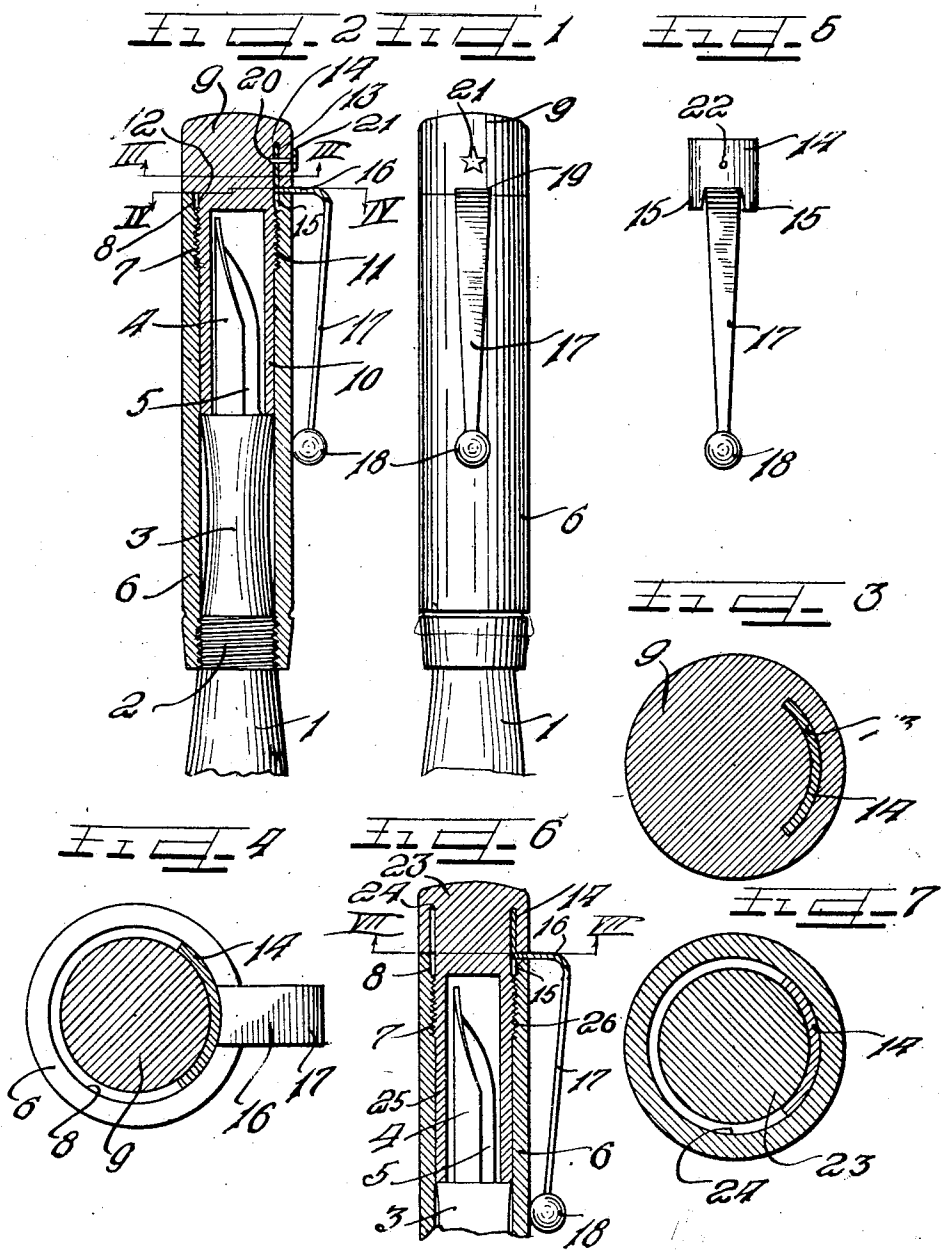
Aug. 28, 1928.

1,681,954

S. M. SAGER
FOUNTAIN PEN CLIP

Filed June 13, 1927

2 Sheets-Sheet 1



INVENTOR

Solomon M. Sager

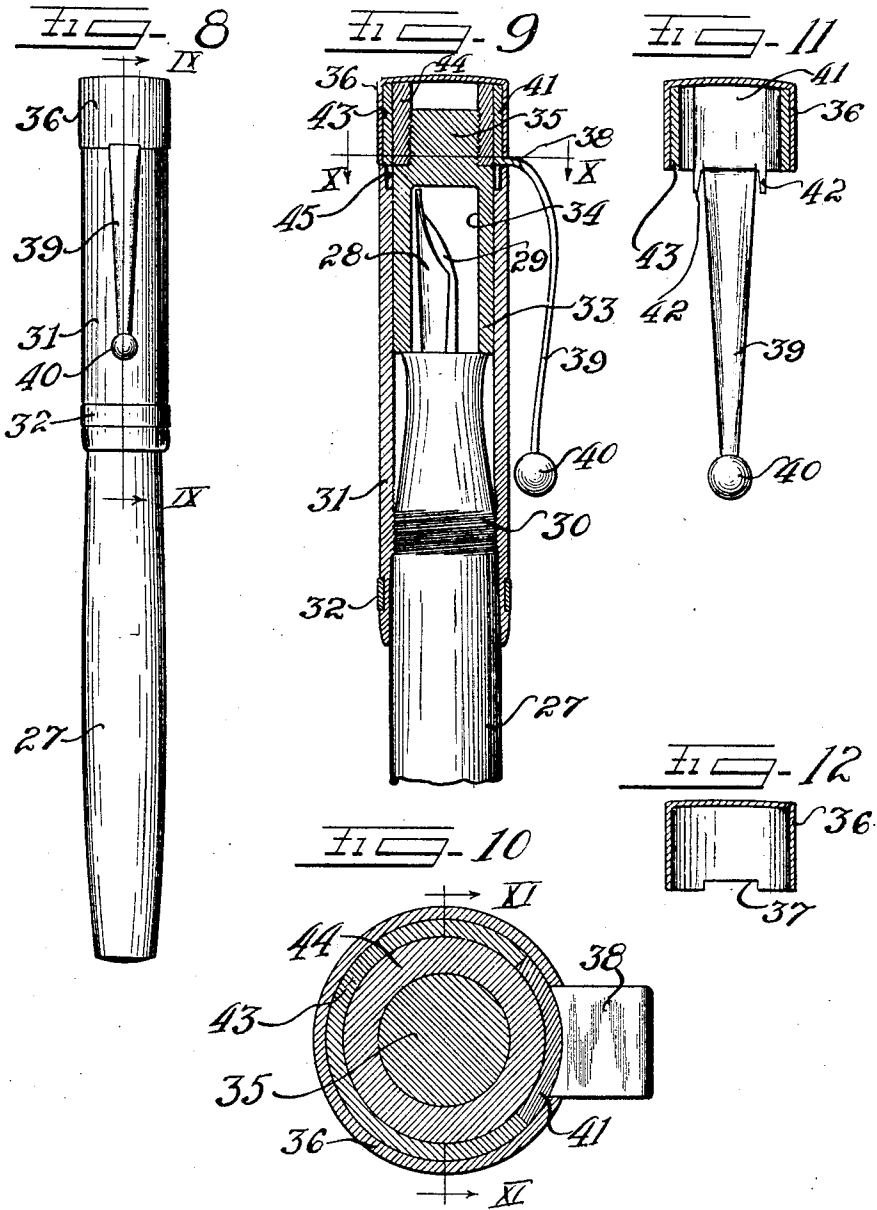
BY *Charles W. Hill* ATTORNEY

Aug. 28, 1928.

S. M. SAGER
FOUNTAIN PEN CLIP
Filed June 13, 1927

1,681,954

2 Sheets-Sheet 2



INVENTOR
Solomon M. Sager

By *Charles H. Hill*
ATTORNEY

UNITED STATES PATENT OFFICE.

SOLOMON M. SAGER, OF CHICAGO, ILLINOIS, ASSIGNOR TO THE SAGER PEN CORPORATION, A CORPORATION OF DELAWARE.

FOUNTAIN-PEN CLIP.

Application filed June 13, 1927. Serial No. 198,460.

This invention relates to fountain pens and more particularly to an improved fountain pen clip and holder therefor, adapted to be associated with a fountain pen cap, in such a manner that when the clip is in position only the ball carrying spring arm is exposed.

It is an object of this invention to provide an improved fountain pen clip adapted to be engaged in position between a fountain pen cap and the removable head thereof.

It is also an object of this invention to provide the head of a fountain pen cap with a groove adapted to receive a portion of the retaining head of a ball clip to hold said clip in position on a fountain pen cap with a portion of said retaining head also projecting downwardly into a groove provided in the cap.

It is a further object of this invention to provide a fountain pen cap with an improved removable notched metal head within which a supporting plate for a resilient clip together with a split filler band are adapted to be rigidly held in position by means of an internally threaded retaining ring, permitting the entire metal head mechanism to be removably secured upon a threaded stud formed on a recessed plug engaged in one end of the fountain pen cap.

It is an important object of this invention to provide a fountain pen with an improved clip, the resilient ball carrying arm of which is provided with a toothed arc shaped retaining plate adapted to be seated in grooves provided in a fountain pen head and cap with said head provided with retaining means for holding the retaining plate secured in a predetermined position within the fountain pen head.

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

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

On the drawings:

Figure 1 is an enlarged fragmentary elevational view of the cap end of a fountain pen equipped with an improved clip embodying the principles of this invention.

Figure 2 is a longitudinal section of the portion of the fountain pen shown in Figure 1, with parts shown in elevation.

Figure 3 is an enlarged transverse detail section taken on line III—III of Figure 2.

Figure 4 is an enlarged transverse detail section taken on line IV—IV of Figure 2.

Figure 5 is an enlarged front elevation of the improved fountain pen clip removed from the fountain pen.

Figure 6 is a fragmentary longitudinal section of the cap end of a modified form of fountain pen and clip with parts shown in elevation.

Figure 7 is an enlarged transverse detail section taken on line VII—VII of Figure 6.

Figure 8 illustrates an elevational view of a fountain pen equipped with a modified form of retaining means for the improved clip.

Figure 9 is an enlarged central longitudinal section taken on line IX—IX of Figure 8 showing parts in elevation.

Figure 10 is an enlarged transverse detail section taken on line X—X of Figure 9.

Figure 11 is a reduced transverse sectional view of the head removed from the fountain pen cap, with the retaining ring omitted.

Figure 12 is a transverse section of the metal head only, with the clip and retaining members omitted.

As shown on the drawings:

The reference numeral 1 indicates a fountain pen barrel having a threaded portion 2 and a holder 3 to one side of the threaded portion for the purpose of supporting the pen point or nib 4 and a feed bar 5. The above mentioned parts may be of any desired type of construction since they form no part of the present invention. Removably threaded on the threaded portion 2 of the barrel 1 is one end of a cap sleeve 6, the other end of which is open and internally threaded at 7, with said threaded portion 7 terminating a short distance from the outer end of the cap to form an inner peripheral recess or groove 8 (Figure 2). The grooved and threaded outer end of the cap 6 is normally adapted to be closed by means of a plug or head 9 having integrally formed axially on the inner end thereof a pen point protecting sleeve 10 of a diameter less than the outer diameter of the head 9. The sleeve 10 is externally threaded for a short distance at 11, leaving a plain portion at 12 between the threaded portion 11 and head 9. The plain portion 12 of the sleeve 10 is adapted to register

with the groove 8 in the cap 6 when the head is in position to close the outer end of the cap. The inner end of the head 9 adjacent one portion of the plain portion 12 of the sleeve 10 is provided with an arc shaped recess or groove 13 provided for the purpose of receiving an arc shaped retaining plate 14, the side margins of which terminate in a pair of downwardly directed lugs or teeth 15. The retaining teeth 15 are positioned upon opposite sides of an upper arm portion 16 integral with the retaining plate 14 and affords a bracket or support for a downwardly directed resilient fountain pen clip 17. The clip 17 has a ball 18 formed on the lower end thereof, with said ball normally in resilient contact with one side of the cap 6. The inner end of the head 9 is provided with a notch at 19 which communicates with the recess 13 and is provided to permit the clip arm 16 to seat therein with the retaining plate 14 projecting into the head recess 13 and rigidly secured in said head by means of a retaining pin or screw 20, having a star shaped head 21. The retaining plate 14 is provided with an aperture at 22 through which the retaining pin 21 is engaged. With the retaining plate 14 seated in the head recess 13 and secured in place by means of the retaining pin 21 the clip 17, the head 9 and the sleeve 10 form a unit. The sleeve 10 is adapted to be projected into the cap 6 with the threaded portion 11 threaded into the threaded section 7 of the cap, until the inner end of said head 9 is brought into contacting relation with the end of the cap at which time the teeth 15 of the retaining plate 14 are permitted to project into the cap groove 8 with the lower face of the clip arm 16 seated on the upper edge of the cap 6, thereby permitting only the clip arm to project from the cap with the clip 17 and the ball 18 properly positioned on the exterior of the cap 6 to be used as a means for supporting the fountain pen in a person's pocket. When the head 9 and the sleeve 10 are in position on a fountain pen cap 6 the sleeve 10 affords a protecting pocket for the fountain pen point 4 and the feed bar 5 with the end of the holding portion 3 of the fountain pen barrel contacting the inner end of the sleeve 10 as clearly illustrated in Figure 2. To remove the clip 17 from the cap it is only necessary to unthread the head 9 thereby simultaneously removing both the clip 17 and said head from engagement with the fountain pen cap 6. The improved fountain pen clip may be rigidly secured in the recessed head 9 by means of the star headed pin or rivet 21 or if preferred, a star headed screw may be used for the purpose of removably holding the clip engaged with the head 9. The retaining plate 14 and the teeth 15 thereof projecting into the grooved head 9 and into the grooved cap 6 afford a substantial support

for the resilient outer projecting portion of the fountain pen clip.

Figures 6 and 7 illustrate a modified form of the device in which the clip and its integral retaining plate is substantially identical in construction to the fountain pen clip illustrated in Figure 5. The fountain pen cap 6 is also constructed substantially the same as the cap 6 illustrated in Figure 2 with said cap being provided with an internally threaded portion 7 and a groove 8. In this form of the device a head or plug 23 is provided having a continuous groove 24 formed in the inner end thereof and adapted to register with the groove 8 in the cap 6 when a pen point protecting sleeve 25 integrally formed axially on the end of said plug 23 is engaged in the outer end of the fountain pen cap 6 as shown on Figure 6. In the modified form of the device the teeth 15 of the clip are adapted to be projected into the cap groove 8 with the clip arm 16 seating in a notch provided in the outer end of the fountain pen cap 6, so that the head 23 is adapted to be rotated to project the sleeve 25 into the cap 6 with a threaded engagement with the threaded portion 7 of the cap. This can be accomplished for the reason that the annular groove 24 in the head 23 loosely receives the retaining plate 14 therein permitting rotation of said head 23 until the inner end of the head seats against the outer end of the cap 6, in which position the fountain pen clip 17 is held secured in place with the plate 14 projecting into the groove 24 of the head while the teeth 15 of said plate project into the groove 8 of the fountain pen cap 6. It will thus be noted that a fountain pen clip is provided having a supporting end or plate integrally formed on one end thereof adapted to project into both the grooved fountain pen cap and a grooved head or plug whereby the clip proper is adapted to project from the cap to afford an arrangement whereby a fountain pen may be engaged over a hem or margin of a pocket to retain a fountain pen or pencil in place.

Figures 8 to 12 inclusive illustrate another modified form of a fountain pen comprising an ink barrel 27 having a pen point 28 and a feed bar 29 mounted in one end thereof in the usual manner. Removably threaded on a threaded section 30 of the barrel 27 is one end of a cap or sleeve 31 having a decorative metal band 32 engaged around the periphery thereof. The other end of the cap or sleeve 31 is also open and has rigidly secured therein a plug 33 provided with a recess or chamber 34 into which the pen point 28 and the feed bar 29 are adapted to be projected to protect the same when the fountain pen cap is in position on the barrel as illustrated in Figure 9. Integrally formed on the upper closed end of the plug 33 is an externally threaded stud or shank 35 which is of reduced diameter and

projects upwardly above the upper edge of the cap 31. The upper end of the cap 31 is provided with an inner peripheral groove 45 thereby leaving a peripheral space between the outer end of the plug 33 and the cap 31.

The threaded shank 35 projecting from the barrel permits an all metal clip carrying head unit to be removably engaged upon the cap 31. The clip unit referred to comprises in detail an exterior hollow metal head or shell 36 closed at one end and having a notch 37 in the margin of the open end thereof. The notch 37 is provided for the purpose of permitting the upper arm portion 38 of a resilient fountain pen clip 39 to seat therein. The resilient fountain pen clip 39 is disposed on the exterior of the cap 31 and is of a curved tapered construction having a ball tip 40 formed on the end thereof. Integrally formed on the end of the clip arm 38 is an arc-shaped retaining or mounting plate 41, the side margins of which terminate in a pair of downwardly directed lugs or teeth 42 positioned on opposite sides of the clip arm 38. Also engaged within the metal head 36 to complete the circle of which the arc-shaped clip supporting plate 41 forms a section is a split metal washer or filler segment 43, the ends of which abut against the ends of the clip supporting plate 41 as clearly illustrated in Figure 10. Frictionally forced or engaged into the metal head 36 to the inside of the clip mounting plate 41 and the filler segment 43 is a metal retaining ring or band 44, the inner wall of which is threaded to permit the clip carrying head unit to be removably threaded upon the threaded projecting shank 35 of the cap plug 33.

The metal clip retaining unit is adapted to be threaded downwardly until the teeth 42 on the clip mounting plate 41 project into the groove 45 through which said teeth 42 are adapted to travel until the open end of the metal clip holding unit seats tightly against the outer end of the cap 31 and against the shoulder formed at the outer end of the plug 33 at the point where the reduced shank 35 commences. It will thus be noted that the metal finishing head is adapted to be tightly and removably engaged on the end of the cap 31 with a clip arm 38 seated in the notch 37 of the head or shell 36 and tightly clamped between the said head 36 and the upper end of the cap 31 as clearly illustrated in Figure 9.

This arrangement of providing an all metal clip holding unit for removable engagement on one end of a fountain pen cap not only affords a convenient arrangement for supporting a fountain pen clip but also affords a finished metal head for the cap which lends a decorative effect to the cap, matching the metal band or ring 32. The metal band 32 together with the metal head 36 also act to reinforce and protect the fountain pen cap 31.

made, and numerous details of construction may be varied through a wide range without departing from the principles of this invention, and I therefore do not purpose limiting the patent granted hereon, otherwise than necessitated by the prior art.

I claim as my invention:

1. The combination with a fountain pen cap having a groove therein, of a plug for closing one end of said cap, a clip, a ball formed on one end thereof, an arm integrally formed on the other end of said clip adapted to project inwardly between the plug and cap, a retaining plate integrally formed on said arm and adapted to project into the groove in said plug, and teeth integrally formed on said plate adapted to project into the groove of said fountain pen cap.
2. The combination with a grooved fountain pen cap and a plug therefor, of a head for said cap, a ball clip, and a toothed plate integrally formed on said ball clip projecting between said grooved cap and said plug and into said head to resiliently hold the ball clip secured in position.
3. The combination with a fountain pen cap having a groove therein, of a chambered plug secured in one end of said cap, a notched head on said plug to close said cap, a ball clip having one end bent to form an arm adapted to seat in the notch of said head, a plate formed on said arm and projecting into said head, and extensions integrally formed on said plate adapted to project into the groove of said cap.
4. The combination with a grooved fountain pen cap, of a closure member therefor, a clip, and retaining means formed on said clip adapted to project into said closure member and into the groove of said cap to hold the clip in position.
5. The combination with a grooved fountain pen cap, of a head secured in one end thereof, a plate positioned to project into said head and into the groove of said cap, means for retaining the plate secured to said head, and a ball clip formed on said plate and projecting from between said head and cap.
6. The combination with a notched fountain pen cap head having a longitudinal groove therein, of a fountain pen clip, a retaining member integrally formed on said clip and projecting upwardly into the groove of said head, and means for securing said plate in said groove.
7. The combination with a fountain pen cap head having a groove and a notch therein, of a fountain pen clip, an arm integrally formed thereon adapted to seat in said notch, a retaining plate integrally formed on said arm and projecting upwardly into the groove in said head, and means for holding said plate secured in said groove.
8. The combination with a fountain pen

I am aware that many changes may be

cap and closure therefor, both having grooves therein adapted to register when the closure is in a position to close said cap, of a ball clip, an arm formed thereon adapted to project between said closure and cap, and a toothed arc-shaped plate integrally formed on said arm adapted to seat in the grooves of said closure and cap to hold the clip in position.

9. The combination with a fountain pen cap and head having arc-shaped grooves therein adapted to register when the head is in position to close said cap, said head also being provided with a notch, a ball clip positioned on the exterior of said cap and seated in said notch, an arc-shaped retaining member formed on said clip adapted to seat in the grooves of said head and cap, and means engaged in said head for locking said arc-shaped member in said head.

10. The combination with a grooved fountain pen cap and head, of a clip mechanism supported thereby and comprising a resilient clip arm bent at one end and having a ball formed on the other end, an arc-shaped retaining plate integrally formed on the bent end of the clip for engagement in said grooved fountain pen head, and extensions integrally formed on opposite margins of said arc-shaped plate for engagement in the groove of said cap.

11. The combination with a grooved fountain pen cap, of a clip positioned on the exterior of said cap and projecting therein, and

a toothed arc-shaped retaining plate formed on the inner end of said clip and seated in the grooved cap for retaining the clip in position.

12. The combination with a recessed fountain pen cap, of a clip mechanism comprising a resilient clip arm, a ball integrally formed on one end thereof and resiliently contacting said cap, and a toothed arc-shaped retaining plate integrally formed on the other end thereof and seated in the recess of said fountain pen cap to hold the clip mechanism in position.

13. A fountain pen clip mechanism comprising an arc-shaped plate, an arm integrally formed at an angle thereto, teeth formed on said plate on opposite sides of said arm, a tapered clip integral with said arm, and a ball on the end of said tapered clip.

14. A fountain pen clip mechanism comprising a resilient tapered clip, a ball formed on one end thereof, an arm integrally formed at an angle on the other end of said clip, and an arc-shaped retaining plate integrally formed at substantially right angles on said arm and projecting above and below the same to permit the clip mechanism to be mounted in place.

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

SOLOMON M. SAGER.