

Aug. 6, 1935.

J. J. ROBBINS

2,010,466

FLUSH CLIP AND MONOGRAM PLATE

Filed Dec. 28, 1932

2 Sheets-Sheet 1

FIG. 1.

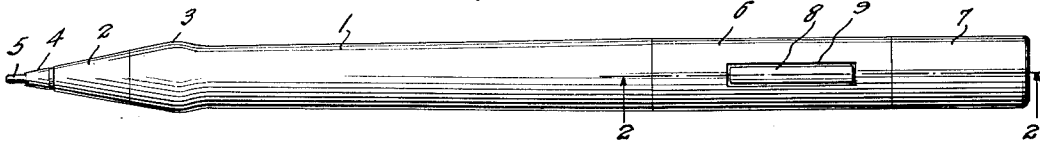


FIG. 2.

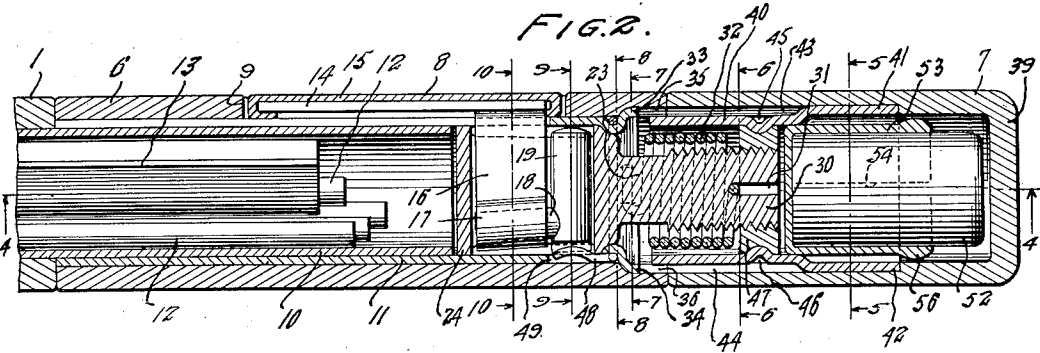


FIG. 3.

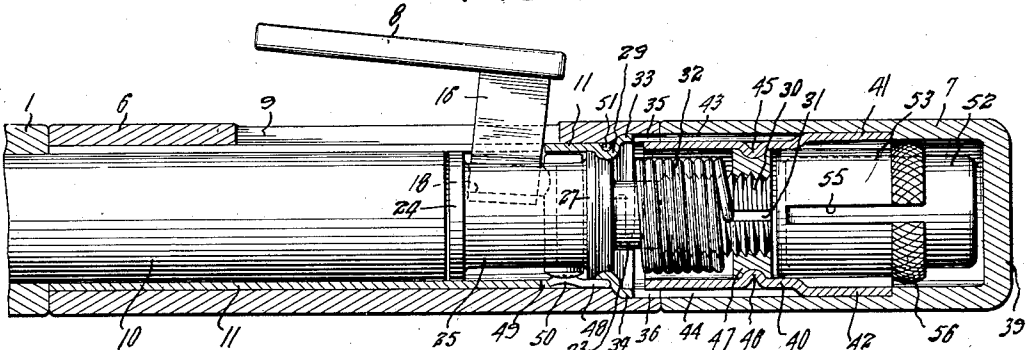
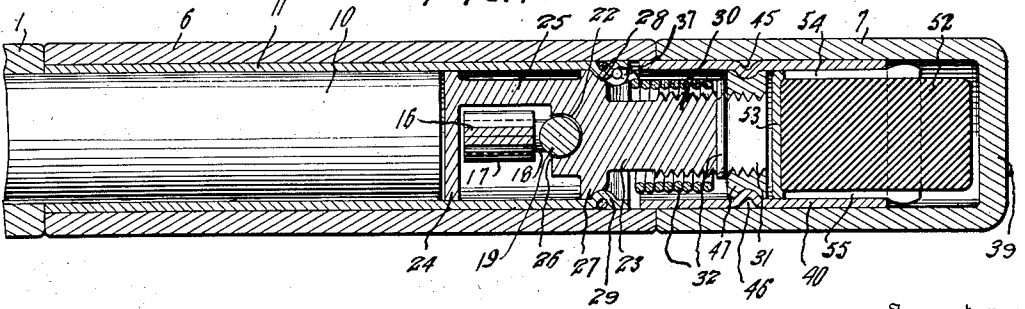


FIG. 4.



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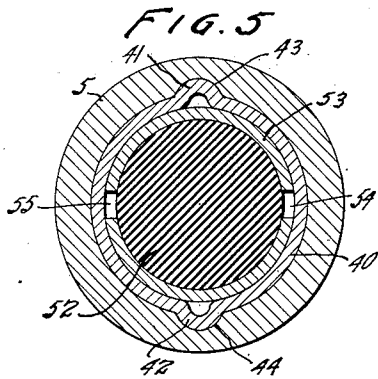
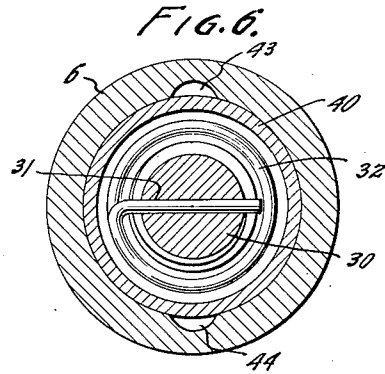
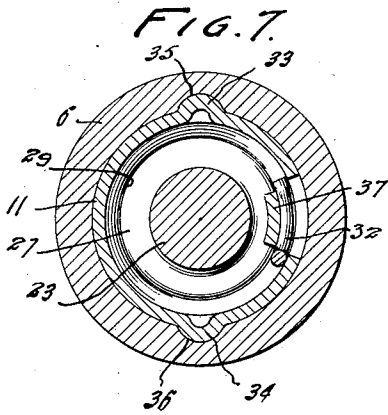
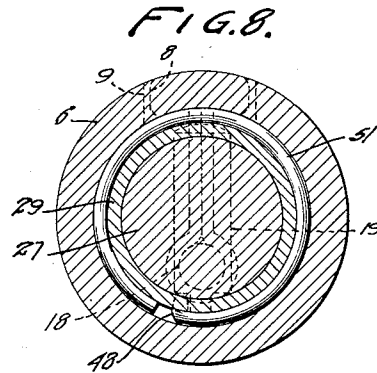
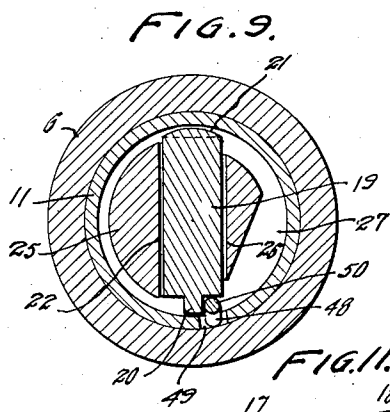
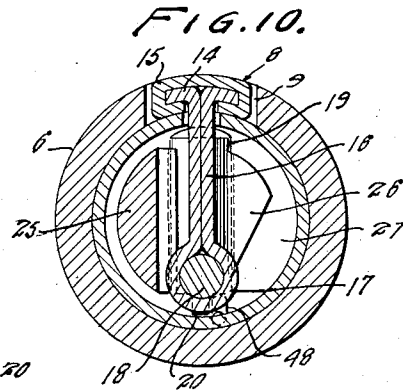
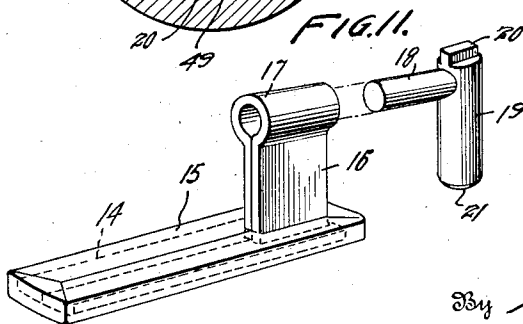
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FLUSH CLIP AND MONOGRAM PLATE

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2 Sheets-Sheet 2



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UNITED STATES PATENT OFFICE

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FLUSH CLIP AND MONOGRAM PLATE

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Application December 28, 1932, Serial No. 649,188

21 Claims. (Cl. 24—11)

This invention relates in general to fastening devices and more particularly has reference to an "improved flush clip and monogram plate" for mechanical pencils, fountain pen caps, and the like.

Previous to this time, while clips capable of lying flush with the cap of a mechanical pencil, fountain pen, or the like have been available, the same have involved projecting operating elements. Also among the disadvantages of flush clips previously provided it has been necessary to positively hold the clip open when inserting a pencil or pen in a pocket. This has been an awkward procedure and made the use of these otherwise desirable forms of clips objectionable.

In the past also where it has been desired to mark a mechanical pencil, fountain pen or the like, for example with the name of the owner, the caps or barrels have necessarily been the only portions available for marking. Such markings have therefore been incapable of being distinctively displayed and the difficulty of satisfactorily stamping or engraving on the rounded surface of a cap or barrel has generally detracted from its appearance.

An object of this invention is to provide a flush clip for the cap of a mechanical pencil, fountain pen or the like free from operative elements projecting from the cap.

Another object of this invention is to provide a flush clip for the cap of a mechanical pencil, fountain pen or the like, operable by rotation of a portion of the cap.

Still another object of this invention is providing a flush clip for the cap of a mechanical pencil, fountain pen or the like operable by rotation of a portion of the cap whereby the clip is fixed in an opened position adapted to be returned to the closed position over spring tension by pressing thereon.

A further object of this invention is to provide a flat monogram plate for the rounded cap of a mechanical pencil, fountain pen or the like.

A still further object of this invention is to provide a flush clip for the cap of a mechanical pencil, fountain pen or the like, free from operative elements projecting from the cap and adapted to serve as a monogram plate.

With these and other objects in view, which may be incident to my improvements, the invention consists in the parts and combinations to be hereinafter set forth and claimed, with the understanding that the several necessary elements comprising my invention may be varied in construction, proportions and arrangement, with-

out departing from the spirit and scope of the appended claims.

In order to make my invention more clearly understood, I have shown in the accompanying drawings means for carrying the same into practical effect without limiting the improvements in their useful applications to the particular constructions, which, for the purpose of explanation, have been made the subject of illustration.

In the drawings forming a part of this specification:

Fig. 1 is a horizontal top view of my novel flush clip and monogram plate shown incorporated in the cap of a type of mechanical pencil forming the subject matter of my copending application for Pencils, Serial No. 640,315, filed October 29, 1932, of which this application is a continuation in part.

Fig. 2 is a sectional view from the side taken on line 2—2 of Fig. 1 showing the mounting of the flush clip and monogram plate in inoperative position in the cap of the pencil.

Fig. 3 is also a side view showing the flush clip and monogram plate in operative position.

Fig. 4 is a top view taken on line 4—4 of Fig. 2.

Fig. 5 is an end sectional view taken on line 5—5 of Fig. 2.

Fig. 6 is an end sectional view taken on line 6—6 of Fig. 2.

Fig. 7 is an end sectional view taken on line 7—7 of Fig. 2.

Fig. 8 is an end sectional view taken on line 8—8 of Fig. 2.

Fig. 9 is an end sectional view taken on line 9—9 of Fig. 2.

Fig. 10 is an end sectional view taken on line 10—10 of Fig. 2.

Fig. 11 is a perspective view of the flush clip and monogram plate, and operating arm.

Referring more particularly by numerals to the drawings, in which the same and similar elements are designated by like symbols of reference throughout, and more particularly to Fig. 1, there is shown the novel mechanical pencil referred to. This pencil comprises generally a barrel 1, composed of any suitable material such as hard rubber. A tapered head 2 is inserted in the end of the barrel which may be formed with an integral peripheral enlargement 3 adjacent the end to facilitate grasping in the use of the pencil. A lead carrying tube is adapted to be mounted within the barrel, having a conical point 4 for projecting through the opening in the head 2. The end of a piece of writing lead 5

5 is shown extending out of the conical point 4. The conical point 4 is adapted to reciprocate with the application of pressure thereon to feed lead out of the end thereof through operation of a clutch mechanism within the barrel 1. The barrel is also provided with a lead reservoir therein for feeding refills automatically as the lead projecting from the conical point 4 is exhausted.

A cap 6 is fitted on the other end of the barrel, which in turn, in accordance with the present invention, is provided with a supplemental cap 7.

The flush clip monogram plate forming the subject matter of the present application is indicated by the numeral 8 and shown fitted in a longitudinal peripheral slot provided in the cap 6.

The lead magazine is adapted to be loaded by removing the cap 6, while without removing the cap 6 the supplemental cap 7 may be withdrawn to expose an eraser.

The flush clip monogram plate is adapted to be operated by a partial revolution of the supplemental cap 7 under tension so that objectionable projecting operating elements are eliminated.

The cap 6, open at both ends as shown in Fig. 2, is fitted over a metallic sleeve 10 composed, for example, of brass, terminating flush with the cover rim of the cap. The sleeve 10 is adapted to be telescoped within and engage the top portion of a similar sleeve 11 projecting from the top of the barrel 1 with a force fit. The union may be screw threaded if found more desirable.

In Fig. 2 the sleeve 11 is shown in section, forming a magazine for leads 12 for the pencil, with a guide trough 13 mounted therein, better described in my copending application. Merely a side view of the sleeve 11 is shown in Figs. 3 and 4.

It will be appreciated from the foregoing that the lower rim of the cap 6 is adapted to be juxtaposed against the top rim of the barrel 1, by telescoping the sleeve 10 fitted therein within the sleeve 11 projecting from the barrel for a force fit engagement.

The novel flush clip monogram plate 8 forming the subject matter of this application as already described is adapted to be flush with the periphery of the barrel 6 by fitting in the longitudinal slot 9 provided therein.

The clip plate 8 may be solidly composed of any suitable metal or alloy, or as is shown in Fig. 11 may consist of a base plate 14 having a covering 15 of any suitable material folded thereover. This cover, for example, may be folded over a plate of baser metal or may be a suitable transparent material so that markings on the plate will be visible therethrough.

The clip plate 8 is adapted to be retained in position and operated by a member 16, as best shown in Fig. 11, projecting from the underside of the clip plate adjacent its top end in central longitudinal relation at one end, the other end having a longitudinal sleeve 17 integrally formed thereon. The sleeve 17 is adapted to be engaged by a pin 18, rotatable therein, having one end fixed in the periphery of a pin 19 adjacent one of its ends. The pin is provided with a diametrical projection 20 on that end and the rim of its other end is beveled as at 21.

The clip plate 14 as shown in Fig. 11 may be split and the clip plate, member 16 and sleeve 17, thus conveniently stamped from one piece.

The pin 19, as is best shown in Fig. 4 is adapted to be transversely mounted within the cap 6,

by insertion prior to assembly in a transverse aperture 22 provided in a member 23 for fitting within the cap 6.

The member 23 is adapted to have its lower portion fitted for rotation in the sleeve 11. The lower portion of the member 23 is cut away adjacent the end to accommodate the member 16, the end terminating in a collar 24, integrally formed on the lower end of the member 23 by a remaining tubular segment. A diametrical slot 26 communicating with the aperture 22 is provided for receiving the pin 18. It will be seen from the foregoing that with rotation of the member 23 within the cap 6 the clip plate 8 is adapted to be thrust outward or drawn inward by reason of the sleeve 17 formed on the member 16 carried on the underside of the clip plate, being engaged by the pin 18 seated in one end of the transversely mounted pin 19, carried by the member 23.

The member 23 is provided in addition with an axial threaded extension 30 on its top end having a transverse slot 31 at its end for securing the top end of a helical spring 32 mounted over the body of the extension.

The top rim of the sleeve 11 is provided with oppositely bent splines 33 and 34 as shown in Fig. 7 for fitting in opposite longitudinal grooves 35 and 36 provided in the interior of the cap 6 to prevent relative rotation between the cap and the sleeve. The lower end of the spring 32 is fixed to the sleeve 11 by an integral flange 37 as also shown in Fig. 7, cut away from the rim of the sleeve. It will thus be apparent that rotation of the member 23 relative to the sleeve 11 is against the tension of the spring 32 as already described, and with further reference to Fig. 2 the supplemental cap 7 is adapted to be mounted on the top of the cap 6. The cap 7, having a conventional closed end 39 is mounted on the cap 6 by telescoping over a sleeve 40, having opposite longitudinal ribs 41 and 42 integrally formed thereon, for example, by stamping, as also shown in Fig. 6. These ribs are adapted to engage in corresponding grooves 43 and 44, as also shown in Fig. 6, with fitting of the cap 7 over the sleeve to lock the same against relative rotation therebetween. The sleeve 40 is formed with indentations around the periphery at substantially its center, forming integral projections 45 and 46 around its interior for fitting in corresponding indentations provided in the periphery of a nut 47 to lock the nut and sleeve in engagement. The nut 47 is adapted to be screwed on the threaded extension 30 of the member 23, the end of the spring 32 extending through the slot 31 therein acting as a stop.

It will be seen from the foregoing that rotation of the cap 7 relative to the cap 6, will rotate the member 23 against the tension of the spring 32. The member 23 is mounted for rotation in the sleeve 11 independent of the sleeve and cap 6. The member 23 is caused to rotate with the cap 7 through the engagement of the cap with the sleeve 40, positively connected to the nut 47 carried on the member 23 and screwed against the end of the spring 32.

Rotation of the member 23 is limited to one half of a full revolution in the provision of a stop 48 for fitting in a slot 49 in the sleeve 11 as is shown in Figs. 8 and 9, for engaging the projection 20 on the pin 19. When the member 23 is rotated the half revolution to project the member 16 carrying the clip 8 outwardly, the clip will remain open until pressed so that it will close under spring

ten- sion. The stop 48 is formed by turning the end of an annular wire 51, and the stop may be bent as at 50 to insure contact with the projection 20. The wire 51 encircles the sleeve 11 and fits within the peripheral channel 29. It will be seen that in operation the clip plate 8 is held seated in the slot 9 and the cap 6, or against a pocket or the like to secure the pencil therein, by the tension of the spring 32. The clip plate may be fully raised by rotation of the cap 7 a half revolution relative to the cap 6 against the tension of the spring where it will catch in the open position and may be closed by pressing thereon to return it to the closed position under tension in the manner already described.

An eraser 52 is adapted to be mounted in the sleeve 40, accessible by removal of the cap 7. The eraser is fitted in a casing 53 having opposite longitudinal slots 54 and 55 to allow for expansion with the insertion of an eraser. The casing is adapted to be mounted in the top end of the sleeve by a force fit. The casing is formed with an enlarged knurled rim 56 to facilitate its insertion and removal in the sleeve. Upon the eraser becoming worn a new one may readily be substituted either by removing the casing and inserting a new eraser or inserting a new casing with an eraser already fitted therein.

The attachment of the clip plate to a resilient member will be particularly noted. In prior construction the clip has usually formed the resilient member. If made of precious metal, a substantial loss has resulted where it has been necessary to substitute a new clip by reason of loss of resiliency. In the present construction the clip plate is retained, and a separate resilient element of a baser metal capable of having longer life, provided, which may be substituted without discarding the clip plate.

There is accomplished by this invention a flush clip and monogram plate for the cap of a mechanical pencil, fountain pen or the like in which the clip plate does not form, but is attached to a tension element and in which there are no projection operating elements.

While I have shown and described the preferred embodiment of my invention, I wish it to be understood that I do not confine myself to the precise details of construction herein set forth, by way of illustration, as it is apparent that many changes and variations may be made therein, by those skilled in the art, without departing from the spirit of the invention, or exceeding the scope of the appended claims.

I claim:

1. A cap for a mechanical pencil, fountain pen or the like, comprising a clip member, a helical spring connected thereto, and means to move the clip against the tension of the spring.

2. A cap for a mechanical pencil, fountain pen or the like, comprising a clip member normally fitting, flush with the surface thereof, a separate resilient member connected thereto and to the cap, and means to raise the clip against the tension of the resilient member by rotating a portion of the cap.

3. A cap for a mechanical pencil, fountain pen or the like, comprising a clip member normally fitting in a slot provided in the cap, flush with the surface thereof, a helical spring enclosed in the cap connected thereto, and means to raise the clip out of the slot against the tension of the spring.

4. A cap for a mechanical pencil, fountain pen or the like, comprising a clip member nor-

mally fitting in a slot provided in the cap, flush with the surface thereof, a helical spring enclosed in the cap connected thereto and to the cap, and means to raise the clip out of the slot against the tension of the spring by rotating the cap.

5. A cap for a mechanical pencil, fountain pen or the like, comprising a clip member normally fitting in a slot in the cap, flush with the surface thereof, a separate resilient member enclosed in the cap, and means to raise the clip out of the slot against the tension of the resilient member by rotating a portion of the cap with respect to the remaining portion.

6. A cap for a mechanical pencil, fountain pen or the like, comprising a clip member normally fitting in a slot in one section of the cap, flush with the surface thereof, the cap comprising two sections, a separate resilient member enclosed in the cap, and means to raise the clip out of the slot against the tension of the resilient member by rotating one section of the cap with respect to the other section.

7. A cap for a mechanical pencil, fountain pen or the like, comprising a clip member normally fitting in a slot in one section of the cap, flush with the surface, the cap comprising two sections, a helical spring enclosed in the cap connected to the clip, and means to raise the clip out of the slot against the tension of the spring by rotating one section of the cap with respect to the other section.

8. A cap for a mechanical pencil, fountain pen or the like, comprising a clip member normally fitting in a slot in one section of the cap, flush with the surface thereof, the cap comprising two sections, a helical spring enclosed in the cap connected through intermediate couplings to the clip, and means to raise the clip out of the slot by rotating one section of the cap with respect to the other section.

9. A cap for a mechanical pencil, fountain pen or the like, comprising a clip member normally fitting in a slot in one section of the cap, flush with the surface thereof, the cap comprising two sections, a helical spring enclosed in the cap, connected to one section of the cap and to the clip, and means to raise the clip by rotating one section of the cap with respect to the other.

10. A cap for a mechanical pencil, fountain pen or the like, comprising a clip member normally fitting in a slot in one section of the cap, flush with the surface thereof, the cap comprising two sections, one rotatable with respect to the other, a helical spring enclosed within the cap, connected to one section of the cap and through intermediate couplings to the clip, and means to raise the clip by rotating one section of the cap.

11. A cap for a mechanical pencil, fountain pen or the like, comprising a clip member normally fitting in a slot provided in one section of the cap, flush with the surface thereof, the cap comprising two sections, a helical spring enclosed within the cap connected indirectly to one section thereof, and to the clip, and means to raise the clip by rotating one section of the cap with respect to the other.

12. A cap for a mechanical pencil, fountain pen or the like, comprising a clip member normally fitting in a slot provided in one section of the cap, flush with the surface thereof, the cap comprising two sections, a helical spring enclosed within the cap connected to one section thereof and indirectly to the clip, and means to raise the

clip by rotating one section of the cap with respect to the other.

13. A cap for a mechanical pencil, fountain pen or the like, comprising a clip member normally fitting in a slot provided in one section of the cap, the cap comprising two sections, the clip member comprising an exposed surface forming a monogram plate, a helical spring enclosed within the cap, connected to one section thereof, and to the clip, and means to raise the clip against the tension of the spring by rotating one section of the cap with respect to the other.

14. A cap for a mechanical pencil, fountain pen or the like, comprising a clip member normally fitting in a slot provided in one section of the cap, the cap comprising two sections, a helical spring enclosed within the cap, connected to one section thereof and to the clip through intermediate couplings, means to raise the clip by rotating one section of the cap with respect to the other, and a stop for limiting rotation of the section to limit raising of the clip.

15. A cap for a mechanical pencil, fountain pen or the like comprising a clip member normally lying flush with the cap, means to raise the clip to a permanently open position, and means to return the clip to a closed position under spring tension.

16. A cap for a mechanical pencil, fountain pen or the like comprising a clip member normally adapted to lie flush with the cap, means to raise the clip to a permanent open position against spring tension by rotation of the portion of the cap, and means to lower the clip

under spring tension for fitting flush with the cap by pressing on the clip.

17. A cap for a mechanical pencil, fountain pen or the like, comprising two portions, one rotatable with respect to the other, a clip connected in one portion, and means to raise the clip by rotation of the other portion.

18. A cap for a mechanical pencil, fountain pen or the like, comprising two portions, one rotatable with respect to the other, a clip normally adapted to lie flush with the periphery of one portion, and means to raise the clip by rotation of the other portion.

19. A cap for a mechanical pencil, fountain pen or the like, comprising two portions, one rotatable with respect to the other, a clip normally adapted to lie flat on one portion, and means to fix the clip in a raised position by rotation of the other portion.

20. A cap for a mechanical pencil, fountain pen or the like, comprising two portions, one rotatable with respect to the other, a clip normally adapted to lie flat on one portion and means to fix the clip in a raised position by rotation of the other portion against spring tension.

21. A cap for a mechanical pencil, fountain pen or the like, comprising two portions, one rotatable with respect to the other, a clip normally adapted to fit flush with the periphery of one portion, a spring member connected between the clip and the other portion, and means to raise the clip against the tension of the spring by rotation of the other portion.

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