

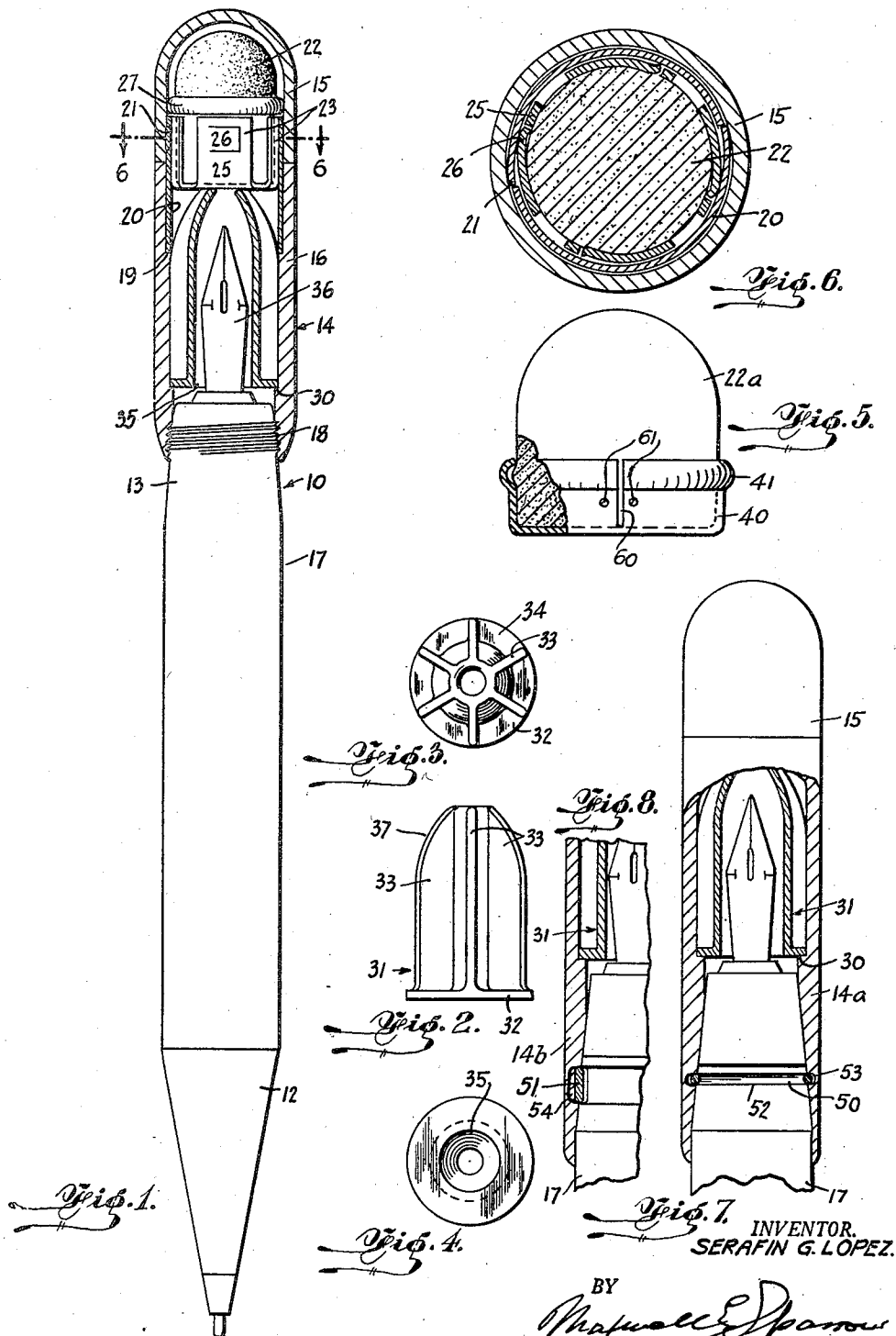
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CAP FOR PENCIL, PENCIL-PEN COMBINATION OR THE LIKE

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CAP FOR PENCILS, PENCIL-PEN COMBINATIONS, OR THE LIKE

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13 Claims. (Cl. 120-84)

This invention relates generally to improvements in mechanical pencils or pencil and pen combinations and more particularly to a cap for such implements in which magazine means for holding spare leads are provided such as that described in my copending application, Serial Number 463,480.

It is an object of the present invention to provide a practical and efficient cap for a mechanical pencil or pencil-pen combination wherein there is incorporated a spare-lead magazine, eraser holder, eraser, and cover for the eraser.

A further object of the present invention is to provide in a cap for a mechanical pencil or pencil-pen combination, a novel eraser holder and cover therefor which may be conveniently and easily assembled with relation to the outer shell of the cap.

A still further object of the present invention is to provide in a cap of the aforementioned kind means whereby the eraser cover may be easily separated from the cap proper or the eraser holder without disturbing the latter.

Further objects and advantages of the invention will appear from the following disclosure thereof together with the attached drawing which illustrates certain forms of embodiment thereof, and in which:

Fig. 1 is a view of a pen-pencil combination, the cap portion of which is shown in section;

Fig. 2 is a side elevational view of the lead reservoir insert;

Fig. 3 is a top view of Fig. 2;

Fig. 4 is a bottom view of Fig. 2;

Fig. 5 is a side elevational view (partly in section) of a modified form of eraser with holder;

Fig. 6 is a sectional view taken on line 6-6 of Fig. 1;

Fig. 7 illustrates the pen portion of a pen and pencil holder partly broken away, embodying the invention in a modified form; and

Fig. 8 illustrates a portion of Fig. 7 in a still further modified form.

Referring now more particularly to the drawing, there is disclosed a pen-pencil combination 10 comprising the pencil end 12, the pen end 13 and the cap generally indicated by the numeral 14, the latter being made of any suitable and desirable material.

Cap 14 comprises the auxiliary cap or cover member 15 and outer sleeve or shell 16. Cap 14 threadedly engages the body 17 of the pen-pencil combination 10 as indicated at 18. Within cap shell 16 and seated on shoulder 19 of cap 14 is an inner sleeve 20, having springable pro-

jections, prongs or tongues 21 which facilitates retention of auxiliary cap 15 when pressed thereon. An eraser 22 is provided with a holder 23 comprising a plurality of upturned arms 25, each having a spring prong 26 for facilitating the retention of the eraser holder within shell 20. The eraser 22 is preferably provided with a protruding ring-like member 27 to facilitate gripping by the fingers of a hand of a person for withdrawing and replacing the same.

Resting against a shoulder 30 in shell 16 is a magazine member 31, the latter being specifically illustrated in Figs. 2 to 4. Magazine or cartridge 31 has a lower shoulder portion 32 from which extend vertically a plurality of fan-shaped ribs or fins 33 providing spaces 34 therebetween for accommodating a number of refill leads. The center of the shoulder portion 32 is provided with an opening 35 through which the front portion of the pen 36 passes when the cap 14 is secured in its place upon body 17. The upper part of the magazine member 31 is curved or dome-shaped as at 37, to facilitate the reloading of leads into the storage spaces 34.

In the modification illustrated in Fig. 5, the bottom of eraser 22a may be encased in a shell or holder 40 having an enlarged ridge-like portion 41 similar in function to the ring-like member 27, previously described. Holder 40 may be slitted transversely from its top edge downwardly, as indicated at 60 and may be provided with slight projections 61 which are embedded in eraser 22a. One or more of the slits 60 may be provided.

The eraser 22 or 22a may be of the type used to erase ink marks, pencil marks, typewritten marks or any combination thereof.

In the modification shown in Figs. 7 and 8 the cap 14a or 14b, is held in place by springable snap rings 50 or 51 arranged on the respective cap. As shown in Fig. 7, the ring 50 is received in an annular recess or groove 52 in body 17 of the pen and is set in recess 53 in cap 14a. While ring 50 is shown as being round in Fig. 7, the same may be of a flattened construction providing ring 51 shown in Fig. 8, the said ring being set in recess 54. In both instances, grooves 53 and 50 are larger in diameter than the respective rings to permit the expansion of the ring when removing or replacing the cap 14a, 14b, respectively.

Although the drawing and the above specification disclose the best-modes in which I have contemplated embodying my invention, I desire in no way to be limited to the details of such disclosure for in the further practical application of my invention many changes in the forms and propor-

tions may be made as circumstances require or experience suggests without departing from the spirit of the invention within the scope of the appended claims.

Having thus described my invention, what I claim as new and desire to secure by Letters Patent is:

1. In a mechanical pencil device having a body, a cap for said body, said cap comprising an outer sleeve, an inner sleeve engaging said outer sleeve, said inner sleeve being provided with springable projections, an eraser, a holder for said eraser, said holder having upturned arms, said arms being provided with springable members engageable with said inner sleeve for facilitating support of said holder relative to said inner sleeve, and a cap for said eraser and engageable with said projections for securing said cap relative to said outer sleeve.

2. In a mechanical pencil device having a body, a cap for said body, said cap comprising an outer sleeve, an inner sleeve engaging said outer sleeve, said inner sleeve being provided with springable projections, an eraser, a holder for said eraser, said holder having upturned arms, said arms being provided with springable members engageable with said inner sleeve for facilitating support of said holder relative to said inner sleeve, a cap for said eraser and engageable with said projections for securing said cap relative to said outer sleeve, a magazine having a base and a body, said body having longitudinally disposed spaced-apart ribs providing chambers therebetween for storing spare leads, said magazine base and body having openings for the reception of a protuberance on said device body, said outer sleeve having an internal shoulder, said base being seatable on said shoulder; and engageable means on said outer sleeve and said device body for removably securing said cap to said device body.

3. In a mechanical pencil device having a body, a cap for said body, said cap comprising an outer sleeve, an inner sleeve engaging said outer sleeve, said inner sleeve being provided with springable projections, an eraser, a holder for said eraser, said holder having upturned arms, said arms being provided with springable members engageable with said inner sleeve for facilitating support of said holder relative to said inner sleeve, a cap for said eraser and engageable with said projections for securing said cap relative to said outer sleeve, a magazine having a base and a body, said body having partitions providing chambers for storing spare leads, said outer sleeve having an internal shoulder, said base being seatable on said shoulder; and means engageable with said outer sleeve and said device body for removably securing said cap thereto.

4. In a mechanical pencil device having a body, a cap for said body, said cap comprising an outer sleeve, an inner sleeve engaging said outer sleeve, said inner sleeve being provided with springable projections, an eraser, a holder for said eraser, said holder having upturned arms, said arms being provided with springable members engageable with said inner sleeve for facilitating support of said holder relative to said inner sleeve, a cap for said eraser and engageable with said projections for securing said cap relative to said outer sleeve, and a magazine having a base and a body, said body being substantially dome-shaped and having partitions providing chambers for storing spare leads.

5. In a mechanical pencil device, a cap comprising an outer sleeve, an eraser holder, and a

cover for said holder, springably engaging means for maintaining said cover on said outer sleeve, said holder having upturned arms, said arms being provided with springable members engageable with said sleeve for facilitating support of said holder relative to said sleeve.

6. In a mechanical pencil device, a cap comprising an outer sleeve, an eraser holder, a cover for said holder, springably engaging means for maintaining said cover on said outer sleeve, said holder having upturned arms, said arms being provided with springable members engageable with said sleeve for facilitating support of said holder relative to said sleeve, and a magazine having a base and a body, said body being substantially dome-shaped and having partitions providing chambers for storing spare leads.

7. In a mechanical pencil device, a cap comprising an outer sleeve, an eraser holder, a cover for said holder, springably engaging means for maintaining said cover on said outer sleeve, said holder having upturned arms, said arms being provided with springable members engageable with said sleeve for facilitating support of said holder relative to said sleeve, and a magazine having a base and a body, said body being substantially dome-shaped and having partitions providing chambers for storing spare leads, said sleeve having an internal shoulder, said base being seatable on said shoulder.

8. In a mechanical pencil device, a cap comprising an outer sleeve, an inner sleeve engaging said outer sleeve, said inner sleeve being provided with springable projections, an eraser holder engageable with said inner sleeve for facilitating support of said holder relative to said inner sleeve, and a cap engageable with said projections for securing said cap relative to said outer sleeve.

9. In a mechanical pencil device, a cap comprising an outer sleeve, an inner sleeve engaging said outer sleeve, said inner sleeve being provided with springable projections, an eraser holder engageable with said inner sleeve for facilitating support of said holder relative to said inner sleeve, a cap engageable with said projections for securing said cap relative to said outer sleeve, and a magazine having a base and a body, said body being substantially dome-shaped and having partitions providing chambers for storing spare leads.

10. In a mechanical pencil device, a cap comprising an outer sleeve, an inner sleeve engaging said outer sleeve, said inner sleeve being provided with springable projections, an eraser holder engageable with said inner sleeve for facilitating support of said holder relative to said inner sleeve, a cap engageable with said projections for securing said cap relative to said outer sleeve, and a magazine having a base and a body, said body being substantially dome-shaped and having partitions providing chambers for storing spare leads, said outer sleeve having an internal shoulder, said base being seatable on said shoulder.

11. In a mechanical pencil device having a body, a cap for said body, said cap comprising an outer sleeve, an inner sleeve engaging said outer sleeve, said inner sleeve being provided with springable projections, an eraser, a holder for said eraser, said holder having upturned arms, said arms being provided with springable members engageable with said inner sleeve for facilitating support of said holder relative to said inner sleeve, a cap for said eraser and engageable with said projections for securing said cap relative to said outer sleeve, and a magazine having a base and a body, said body having longitudinally

disposed spaced-part ribs providing chambers therebetween for storing spare leads.

12. In a mechanical pencil device, a cap comprising an outer sleeve, an inner sleeve engaging said outer sleeve, said inner sleeve being provided with projections, an eraser holder engageable with said inner sleeve for facilitating support of said holder relative to said inner sleeve, and a cap engageable with said projections for securing said cap relative to said outer sleeve.

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13. In a mechanical pencil device, a cap comprising an outer sleeve, an inner sleeve engaging said outer sleeve, said inner sleeve being provided with projections, an eraser holder having an annular ridge engageable with said inner sleeve for facilitating support of said holder relative to said inner sleeve, and a cap engageable with said projections for securing said cap relative to said outer sleeve.

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