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(54) FOUNTAIN PEN

(54) STYLOGRAPHE

(57) Abstract:

V

SPECIFICATION. 264967

TO ALL WHOM IT MAY CONCERN:

BE IT KNOWN THAT I, LESLIE ROY WADE, a Subject of the King of England, and a resident of 4 Duke Street, Adelphi, London. W.C.2, ENGLAND. HAVING invented certain new and useful "IMPROVEMENTS IN OR RELATING TO FOUNTAIN OR RESERVOIR PENS" of which the following is a specification:-

This Invention relates to Improvements in fountain or reservoir pens, and has for its object to provide a construction whereby the operations of displacing and re-positioning a nib or writing- end cap or sheath may be effected by the fingers of one hand, the cap or sheath being simple in construction, cheap to manufacture, and adapted for complete removal from the pen body or barrel preparatory to the latter being charged with ink, and to permit of the body or barrel (by the removal of the cap or sheath and its fitment on the rear or shank end of the body or barrel) being, in effect, converted from one of large to one of small diameter, as desired.

I am aware that it has been proposed to construct pencil point protectors with tapered points divided by slits in order to form pliable jaws.

A fountain or reservoir pen, according to my Invention, comprises a body or barrel; a slidable nib or writing-end cap or sheath of vucanite, or other suitable material, a portion whereof is of more or less tapered or conical shape and is provided with a plurality of slits or saw-cuts which extend longitudinally from the apex of the cone to a suitable position along the cap or sheath, in order to permit of circumferential expansion of and to impart a natural springiness or elasticity to this portion of the cap, by which the arms (created by the aforementioned saw-cuts) are returned to closed position when said cap or

sheath is projected; and means whereby said cap or sheath is positively maintained in projected and retracted positions on said body or barrel.

An external rubber ring, or other suitable means, may be provided for projecting the slit or saw-cut portion of the cap or sheath against accidental breakage.

The accompanying sheet of explanatory drawings illustrates, by way of example only, one mode of embodying my Invention.

In said Drawings:-

Figs. 1 and 2 are, respectively, part sectional elevation and plan of a portion of a fountain or reservoir pen showing the writing nib housed in the cap or sheath.

Figs. 3 and 4 are views similar to Figs. 1 and 2, but showing the cap or sheath partially retracted on the body or barrel.

Figs. 5 and 6, are, respectively. part sectional elevation and plan showing the cap or sheath wholly retracted, and the pen ready for use.

Fig. 7 is an elevation of the cap or sheath detached.

Fig. 8 is a detail of portion of a cap or sheath provided with a protecting ring or band of rubber; Fig. 9 showing said ring or band detached.

In said drawings;-

a represents the body or barrel of the pen, and b the nib"section" carrying the customary nib c and "feed" d.

e generally designates a sleeve-cap or sheath which is slidably mounted on said body or barrel a. Said cap or sheath e has patered portion e wherein are formed longitudinal saw-cuts f which allow of the circumferential expansion of and impart a natural springiness or elasticity to this portion.

In Figs. 1 and 2, the nib c and "feed" d are totally enclosed or housed in the tapered portion e^1 of the cap or sheath e, which is positively maintained in position-

until it is wilfully retracted-through engagement of the bevelled rib or flange b^1 of the nib "section" b with an annular recess e^2 provided in the spring portion of the cap or sheath e.

On the pen being required for use, the cap or sheath e is retracted along the barrel a, when the inside surface of the tapered spring portion e1 comes in contact with the bevelled rib or flange b^1 of the nib "section" b, thus circumferentially expanding the tapered or conical spring portion e1 so that it effectively clears the nib c and "feed" d, its rearward movement being limited by the abutement of the inward lip or flange e^3 against the rib or flange b^1 of the "section" b. as shown in Fig. 5.

A second annular grooved recess e^4 is formed in the cap or sheath e, with which recess the bevelled rib or flange b^1 of the nib "section" b engages and positively prevents forward movement of the cap or sheath - until it is wilfully projected - along the barrel when the pen nib c is exposed for writing.

If preferred, in lieu of the grooved recesses e^2, e^4, an annular groove may be formed in the "section" b or barrel a, and suitably spaced ribs or flanges provided ont the inside of the cap or sheath; or spaced ribs or flanges may be provided on the barrel and a groove formed on the inside of the cap or sheath.

On the writing operation being concluded, said cap or sheath is slid back to the position shown in Fig. 1, the natural springiness or elasticity of the tapered or conical portion e^1 causing same to close and thus completely house the nib.

When it is required to charge the pen with ink, the cap or sheath e is completely slid from the body or barrel a, and the pen filled as customary.

In a modified arrangement, in order to determine the necessary longitudinal movement of the cap or sheath on the pen body or barrel, I may provide a pin extending

interiorly from said cap or sheath, which pin is adapted to engage in a suitable slot in the pen body or barrel; or, alternatively, a pin provided on the barrel may be adapted to engage in a suitable slot provided in the said cap or sheath.

In order to avoid accidental breakage of the arms created through the slitting or saw-cutting of the cap or sheath, a band g of rubber, or other suitable material, as shown in Figs. 8 and 9, may be fitted in an annular groove e5 cut in the cap or sheath e.

Although my Invention has been described in its application to a fountain pen, it may obviously be applied to a stylographic reservoir pen.

What I claim as my invention, and desire to secure by Letters Patent is:-

1. A fountain or reservoir pen, comprising a body or barrel; a slidable nib or writing-end cap or sheath of vulcanite, or other suitable material, a portion whereof is of more or less tapered or conical shape and provided with a plurality of slits or saw-cuts which extend longitudinally from the apex of the cone to a suitable position along the sleeve or sheath, in order to permit of circumferential expansion of and to impart a natural springiness or elasticity to this portion of the cap or sheath, for the purpose specified and means whereby said cap or sheath is positively maintained in projected and retracted positions on said body or barrel.

2. A fountain or reservoir pen, as claimed in claim 1, in which the "section" or barrel is provided with a rib or flange, and the cap or sheath is provided with suitably spaced annular grooves or recesses; for the purpose specified.

3. A fountain or reservoir pen as claimed in claim 1, in which pen an annular groove or recess is formed in the "section" or barrel, and the cap or sheath is provided

with suitably spaced ribs or flanges; for the purpose specified.

4. A fountain or reservoir pen as claimed in claim 1, in which pen spaced ribs or flanges are provided on the barrel, and a groove is formed in the inside of the cap or sheath; for the purpose specified.

5. In fountain or reservoir pens as claimed in claim 1, a cap or sheath provided with an annular groove in which a band of rubber or the like is disposed for the purpose specified.

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Fig. 1.

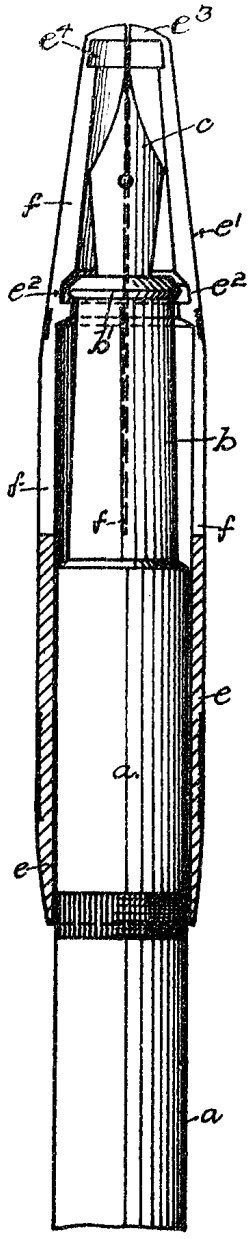


Fig. 3.

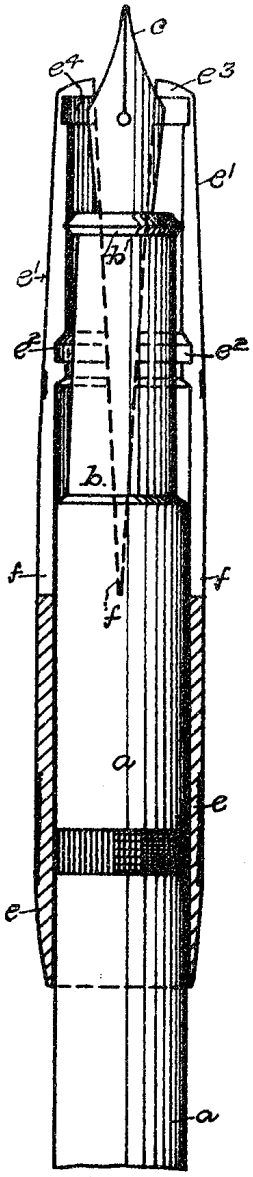


Fig. 5.

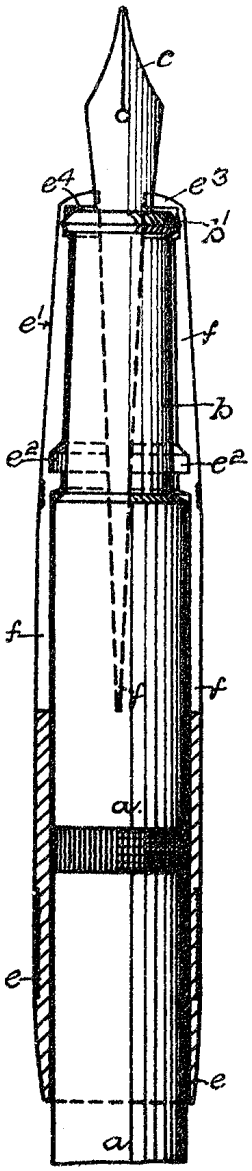


Fig. 7.

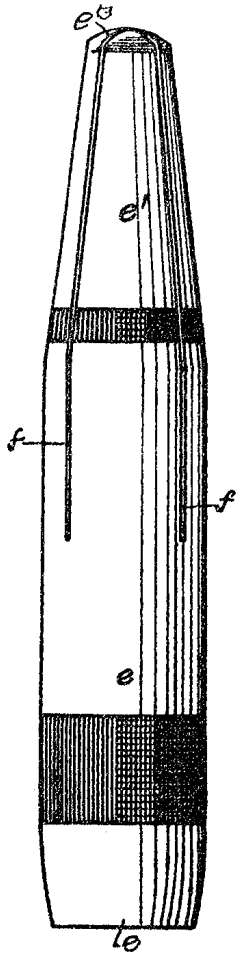


Fig. 8.

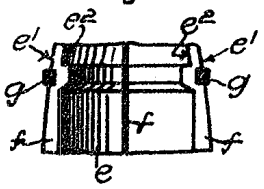


Fig. 2.

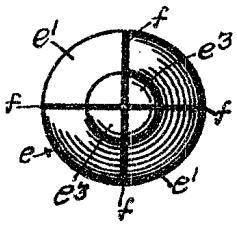


Fig. 4.

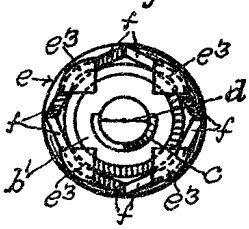


Fig. 6.

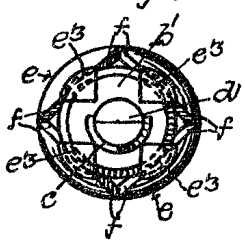
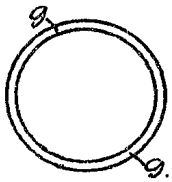


Fig. 9.



Certified to be the drawing referred to in the specifications hereunto annexed,

Ottawa, Sept. 8, 1925

WITNESSES:

BY HIS ATTORNEYS