Dec. 21, 1926. 1,611,171

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ATTACHMENT FOR FOUNTAIN PENS AND THE LIKE

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Fig. 1.

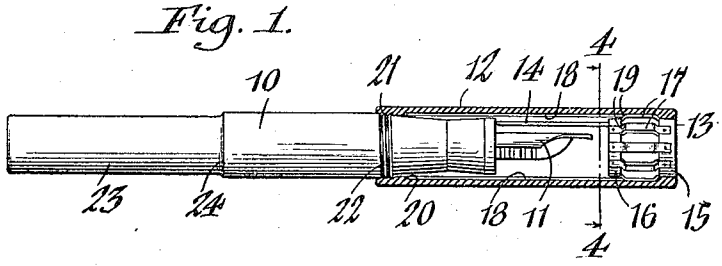


Fig. 2.

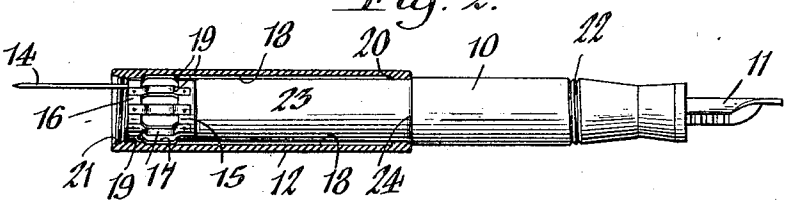


Fig. 3.

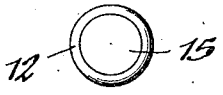


Fig. 4.

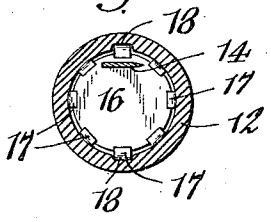
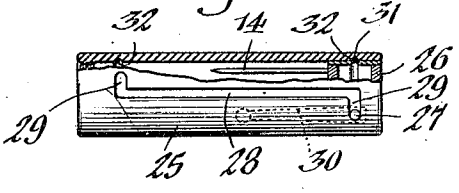


Fig. 5.



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ATTACHMENT FOR FOUNTAIN PENS AND THE LIKE.

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This invention relates to improvements in the protecting caps of fountain pens and similar writing instruments.

Its chief object is to provide the cap with a reversible self-contained closure element which also constitutes a carrier for an auxiliary implement, such as a knife, an eraser or the like.

Another object of the invention is the provision of a simple and inexpensive attachment of this character which is convenient and easy to operate.

In the accompanying drawings:

Figure 1 is a side view of a fountain pen showing the improved cap applied thereto and functioning as a closure for the pen, the cap being shown in section. Figure 2 is a similar view showing the cap in its reversed position and the auxiliary implement projected for use. Figure 3 is a front end view of the cap. Figure 4 is an enlarged transverse section on line 4—4, Fig. 1. Figure 5 is a sectional side elevation showing a modified form of the invention.

Similar characters of reference indicate corresponding parts throughout the several views.

The invention is shown, by way of example, in connection with a fountain pen of ordinary construction, 10 indicating the body or pen-holding element and 11 the pen-point. Removably mounted on the body to normally cover and protect the pen is a cap 12.

This cap is in the form of a cylindrical member or sleeve open at both ends and contains a movable element, designated generally by the numeral 13, which constitutes a combined cap-closure and auxiliary implement-carrier. When positioned at one end of the cap, as illustrated in Fig. 1, this element forms a closure for the cap, and when positioned at the opposite end thereof, as illustrated in Fig. 2, it exposes or extends for use an auxiliary implement 14, such as a knife, an eraser or the like, attached in any suitable manner to said element. The latter is slidable from one end of the cap to the other to perform its duofold function and this may be effected conveniently and automatically when applying the cap to one end of the pen-body or the other. When applying the cap to the rear end of the pen, its movable closure contacts with such end and as the cap is slid into position, its movement relative to the closure element projects the implement 14 outwardly beyond the cap to the position shown in Fig. 2. Similarly, when the cap is applied to the front end of the pen, the implement contacts therewith and as the cap is slid into position, its movement relative to the closure-element forces the latter into the cap to the position shown in Fig. 1.

The combined cap-closure and implement-carrier is contractible and preferably consists of front and rear heads or disks 15, 16 spaced a suitable distance apart and connected by resilient strips 17 which are bowed more or less to enable this duofold element to firmly grip the bore of the cap. The front head 15 forms the closure for the cap and the rear head 16 forms the carrier for the implement 14. To prevent turning of this slidable element in the cap one or more of its resilient strips 17 engage corresponding longitudinal grooves 18 in the interior wall of the cap, as shown in Fig. 4. The extent of movement of said element is limited in either direction by the shouldered portions 19 of those strips engaging the grooves 18 abutting against the opposing ends 20 of such grooves, which ends constitute stop-shoulders, as shown in Figs. 1 and 2.

The bore of the cap 12 is provided at its rear end with an internal screw-thread 21, which, in the applied position of the cap to serve as a protector for the pen, engages an external thread 22 on the pen-body. The rear end of the latter has a reduced portion 23 with which the cap engaged in its reversed position, the resulting shoulder 24 gaging the location of the cap in such position. In this position, the end of the pen-body forms an abutment for the combined cap-closure and implement carrier, thereby preventing its longitudinal displacement while using the implement 14.

In the modified form of the invention shown in Fig. 5, the combined cap-closure and implement-carrier for the cap 25 is in the form of a sliding plug 26 which carries a pin or projection 27 engaging a longitudinal slot 28 in the cap-wall. The ends of the slot terminate in transverse portions 29 with which the pin is adapted to interlock for holding the plug 26 against longitudinal displacement in either of its operative positions. If desired, an attaching clip 30,

shown by dotted lines in Fig. 5, may be connected to the pin 27 for firmly holding the pen in the pocket of the wearer.

As further shown in Fig. 5, the exterior of the plug 26 may have an annular bead 31 thereon adapted to interlock with either one or the other of corresponding grooves 32 formed adjacent to the ends of the cap for yieldingly holding said plug in a set position.

I claim as my invention:—

1. A pen-holder, comprising a pen-holding element, a protecting cap for the pen when not in use, said cap being open at both ends, and a combined cap-closure and auxiliary implement-carrier slidably fitted in the cap, the closure being adapted to close the rear end of the cap in the unused position of the pen and to be slid to the front end of the cap to extend the auxiliary implement therefrom.

2. A pen-holder, comprising a pen-holding element, a cylindrical protecting cap for the pen open at both ends, and a combined cap-closure and auxiliary implement-carrier contained in the cap and slidable from end to end thereof, the closure being adapted to close the rear end of the cap in its normal position to house the auxiliary implement and cover the pen, and to be slid to the front end of the cap by contact with the pen-holding element when said cap is applied to the opposite end thereof.

3. A pen-holder, comprising a pen-holding element, a protecting cap for the pen when not in use, said cap being open at both ends and provided at one end thereof with a stop, and a combined cap-closure and auxiliary implement-carrier contained in the cap and slidable from end to end thereof, the closure being adapted to engage said cap-stop and close the rear end of the cap in one position thereof and to be slid to the front end of the cap to extend the auxiliary implement therefrom in the reversed position of the cap on the pen, the pen-holding element forming an abutment for the closure in its reversed position.

4. A protecting cap for pens and the like, comprising a cylindrical body open at both ends, and a combined cap-closure and implement-carrier contained in said body and slidable from end to end thereof.

5. A protecting cap for pens and the like, comprising a cylindrical body open at both ends, and a contractible cap-closure and implement-carrier contained in said body and slidable from end to end thereof.

6. A protecting cap for pens and the like, comprising a cylindrical body open at both ends, the interior wall of said body having a longitudinal guide-groove terminating short of the ends thereof, and a combined cap-closure and implement-carrier slidable in the body and having a part engaging said guide-groove.

7. A protecting cap for pens and the like, comprising a cylindrical body open at both ends, the interior wall of said body having a longitudinal guide-groove terminating short of the ends thereof, and a combined cap-closure and implement-carrier slidable in the body, said last-named element consisting of front and rear heads and resilient connecting strips, the front head forming a closure for the cap and the rear head forming a carrier for an implement, one of said strips being arranged to engage said guide-groove and having shoulders adjacent its opposite ends adapted to abut against the corresponding ends of the guide-groove to limit the movement of the combined cap-closure and implement-carrier in either direction.

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