Aug. 22, 1933. R. P. MARKSTEIN 1,923,634

FOUNTAIN PEN HOLDER

Filed April 28, 1932

FIG. 1.

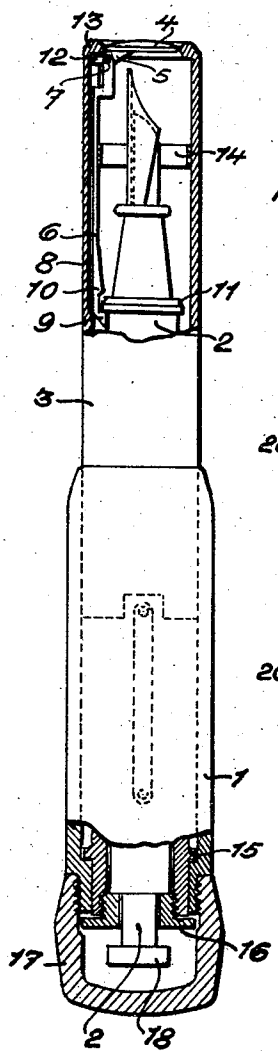


FIG. 3.

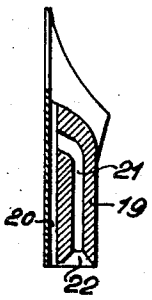
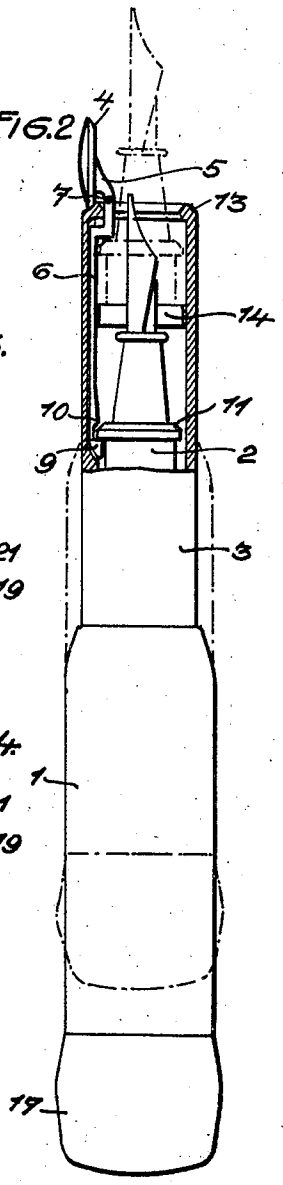


FIG. 4.



FIG. 2.



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FOUNTAIN PEN HOLDER

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11 Claims. (Cl. 120—49)

My invention relates to improvements in fountain pen holders, and more particularly to pens of that class in which a protecting sleeve is provided for the pen proper, and which sleeve carries a hinged cover.

In fountain pen holders of such class, as heretofore constructed, the cover is usually attached to the sleeve by a hinge so that either a gap is left open at the hinge or the cover does not fit tightly after short use and the ink soon dries on the pen.

The object of my invention is to avoid this objection and with this object in view my invention consists in that the hinged cover is connected with an element such as a rod which by the movement of the pen holder body relatively to the protecting sleeve is brought into engagement with this sleeve, and as the pen holder body continues its movement opens or closes the cover, the edge of the protecting sleeve serving as a fulcrum for the cover. Therefore, as, distinguished from the constructions heretofore known, the cover is not provided with a hinge but has a continuous, uninterrupted supporting surface.

The rod is engaged with or disengaged from the pen holder body or a part attached thereto by rocking the rod around its pivot point on the cover. Since the cover is not provided with a hinge it will permanently fit tightly. No springs or resilient elements being used the parts are all positively operated so that the reliability of the device is increased and the device is made durable. Moreover any injury to the point of the pen is avoided with certainty which might be caused by a failure in the operation of the cover.

In order to avoid any injury to the pen holder by turning the outer sleeve relatively to the protecting sleeve the outer sleeve is freely rotatable on the pen holder so that the pen holder is not rotated even if the outer sleeve be rotated.

The drawing illustrates by way of example an embodiment of the present invention. Fig. 1 is an axial section, partly in elevation, of the fountain pen holder with the cover closed and Fig. 2 is a similar view with the cover open. Figs. 3 and 4 are respectively an axial section and a transverse section of part of the ink channel.

3 is the protecting sleeve movable within the annular space between the outer sleeve 1 and the pen holder body 2. The protecting sleeve is closed by a cover 4 whenever the pen is fully drawn in and is automatically opened whenever the pen is pushed outward. It is distinguished from the constructions heretofore proposed. The cover 4 is not connected with the protecting sleeve by a hinge but is pivoted by means of a lug 5 on the bottom side of the cover to a rod 6 at some distance from the outer edge of the cover. This arrangement offers the advantage that the cover has a continuous uninterrupted seat. The rod 6 is axially and moreover radially movable to a slight extent within the sleeve 3 to enable it to follow the pivot point 7. For this purpose the protecting sleeve is provided with an inner longitudinal groove 8 of suitable length and depth for receiving the rod 6.

The lug arranged on the lower side of the cover 5 may either be rigid or flexible, for instance, it may be resilient. The operation takes place reliably just as well through fixed or spring connection between the cover and the push rod.

The object of the ink guide as shown in Figs. 3 and 4 is to provide a uniform and sufficient supply of ink to the pen and to prevent the drying of ink beneath the gold pen point.

The inner end, as shown in Fig. 1 the bottom end, of the rod 6 is suitably bevelled or rounded and is provided at its inner side with two stops 9, 10 and a notch between the two. The stop 9 projects farther inwardly than the stop 10 and is bevelled at its outer side. The pen holder body 2 is provided with a shoulder 11 which engages with the stop 9 when the pen is pushed into the protecting sleeve thereby drawing the rod 6 inwardly and closing the cover 4 as will be presently described. On pushing the protecting sleeve 3 into the outer sleeve 1, for bringing the pen into writing position, the upper edge of the shoulder 11, which is preferably bevelled, strikes aganist the bevelled stop 10. As the bottom end of the rod 6 is in contact with the ungrooved part of the inner wall of the sleeve 3 the rod can move outwardly only together with the protecting sleeve 3. As the sleeve 3 moves outwards a finger 12 of the lug 5 extending beyond the pivot point 7 strikes against the inwardly projecting edge 13 of the protecting sleeve 3 so that as the rod 6 continues its outward movement the cover 4 turns around the point of contact of the finger 12 with the edge 13 and is thus opened. As soon as the cover is open the bottom end of the rod 6 has reached the groove 8. Then as the pen holder continues its upward movement for bringing the pen into writing position the bevelled upper edge of the shoulder 11 strikes against the bevelled stop 10

of the rod 6 but this latter can now move outwardly by the depth of the groove 8 and hence may rock around the pivot point 7 into the position shown in Fig. 2. The shoulder 11 is then clear of the rod 6 and may freely continue its upward movement. When the pen holder body is moved inwardly it is out of engagement with the rod 6 until the bottom side of the shoulder strikes against the bottom stop 9 of the rod 6 whereupon the latter is moved inwardly, and so the bevelled bottom end of this rod reaches the bottom end of the groove 8, and the rod returns into its initial position in which the cover 4 bearing against the edge 13 of the sleeve 3 is closed by turning inwards around its point of contact with the edge 13.

A guiding ring 14 may be secured within the protecting sleeve 3 for holding the rod 6 in its proper position and limiting its inward movement. This ring is so thin that it does not interfere with the movements of the shoulder 11.

Instead of the stops 9 and 10 dogs or projections may be used.

In the foregoing description it has been assumed for the sake of convenience that the pen holder body may be pulled out and pushed into the protecting sleeve 3 although in fact the protecting sleeve is moved along the pen holder body.

The outer sleeve 1 is so connected with the pen holder body 2 that the two parts cannot move longitudinally the one relatively to the other. Heretofore these two parts have been rigidly connected together. It frequently happens that the outer sleeve 1 is accidentally or inadvertently turned relatively to the protecting sleeve 3 which may result in an injury to the parts or in their breaking. In order to avoid this, the outer sleeve is freely rotatable around the penholder body but moves together with the said body axially. As shown in the drawing the outer sleeve 1 is freely rotatable between an annular shoulder 15 in the hollow pen holder body and the outer flange 16 of a plug screwed into the end of the pen holder body.

The outer sleeve 1 is provided as usual with a cap 17 screwed, thereon, by the removal of which an actuating device 18 for the filling mechanism is uncovered, which may be equipped with a compressible ink hose or with an ink pump.

In order to secure in the fountain pen of this class a uniform flow of the ink to the pen the ink feeder 19 located in the hollow of the pen is provided with an inner channel 21 having preferably a conically enlarged rear end 22 which its outer end communicates with the usual ink groove 20 provided at its periphery neck to the pen.

What I claim is:

1. In a fountain pen holder, the combination of a pen holder body, a protecting sleeve for the pen and a rocking cover for the said protecting sleeve, with an actuating mechanism for the said cover comprising an actuating element, means for operatively connecting the said actuating element with the said cover, means for moving the said actuating element relatively to the said protecting sleeve, means for engaging the said element with the said protecting sleeve and disengaging the said element from said protecting sleeve at predetermined relative positions of the said protecting sleeve and the said element, the said means for operatively connecting the said actuating element with the said cover being adapted to force the said cover into the entire periphery of the mouth of the said protecting sleeve and to rock the said cover around a point of the periphery of the mouth of the said protecting sleeve.

2. In a fountain pen holder, the combination of a pen holder body, a protecting sleeve for the pen and a rocking cover for the said protecting sleeve, with an actuating mechanism for the said cover comprising an actuating element, means for operatively connecting the said actuating element with the said cover, means for moving the said actuating element relatively to the said protecting sleeve, means for engaging the said element with the said protecting sleeve and disengaging the said element from said protecting sleeve at predetermined relative positions of the said protecting sleeve and the said element, the said means for operatively connecting the said actuating element with the said cover being adapted to force the said cover into the entire periphery of the mouth of the said protecting sleeve and to rock the said cover around a point of the periphery of the mouth of the said protecting sleeve, the said mouth of the said protecting sleeve and the said cover having continuous uninterrupted contacting surfaces.

3. In a fountain pen holder, the combination of a pen holder body, a protecting sleeve for the pen and a rocking cover for the said protecting sleeve, with an actuating mechanism for the said cover comprising an actuating element, means for operatively connecting the said actuating element with the said cover, the last named means comprising a lug on the bottom side of the said cover connected to the said actuating element, the said lug being adapted to engage in one of its positions the inner periphery of the mouth of the said protecting sleeve, means for moving the said actuating element relatively to the said protecting sleeve, means for engaging the said element with the said protecting sleeve and disengaging the said element from said protecting sleeve at predetermined relative positions of the said protecting sleeve and the said element, the said means for operatively connecting the said actuating element with the said cover being adapted to force the said cover into the entire periphery of the mouth of the said protecting sleeve and to rock the said cover around a point of the periphery of the mouth of the said protecting sleeve.

4. In a fountain pen holder, the combination of a pen holder body, a protecting sleeve for the pen and a rocking cover for the said protecting sleeve, with an actuating mechanism for the said cover comprising an actuating rod, means for operatively connecting the said actuating rod with the said cover, means for moving the said actuating rod longitudinally relatively to the said protecting sleeve, the last named means comprising two superposed stops separated from each other by a notch on the said actuating rod and a shoulder on the said pen holder body, the said shoulder being adapted to engage one of the said stops when the pen holder body moves in one direction, and to engage the other of the said stops, when the pen holder body moves in the opposite direction the said means for operatively connecting the said actuating rod with said cover, being adapted to force the said cover into the entire periphery of the mouth of the said protecting sleeve and to rock the

said cover around a point of the periphery of the mouth of the said protecting sleeve.

5. In a fountain pen holder, the combination of a pen holder body, a protecting sleeve for the pen and a rocking cover for the said protecting sleeve with an actuating mechanism for the said cover comprising an actuating rod, means for operatively connecting the said actuating rod with the said cover, means for moving the said actuating rod longitudinally relatively to the said protecting sleeve, the last named means comprising two superposed stops separated from each other by a notch on the said actuating rod and a shoulder on the said pen holder body, the said shoulder being adapted to engage one of the said stops when the pen holder body moves in one direction, and to engage the other of the said stops when the pen holder body moves in the opposite direction, the said means for operativey connecting the said actuating rod with said cover being adapted to force the said cover into the entire periphery of the mouth of the said protecting sleeve and to rock the said cover around a point of the periphery of the mouth of the said protecting sleeve, the said shoulder being furthermore adapted to come out of engagement with both stops whenever this cover is fully opened.

6. In a fountain pen holder, the combination of a pen holder body, a protecting sleeve for the pen and a rocking cover for the said protecting sleeve, with an actuating mechanism for the said cover comprising an actuating rod, means for operatively connecting the said actuating rod with the said cover, means for moving the said actuating rod longitudinally relatively to the said protecting sleeve, the last named means comprising two superposed stops separated from each other by a notch on the said actuating rod and a shoulder on the said pen holder body, the said shoulder being adapted to engage one of the said stops when the pen holder body moves in one direction and to engage the other of the said stops when the pen holder body moves in the opposite direction, the said means for operatively connecting the said actuating rod with said cover being adapted to force the said cover into the entire periphery of the mouth of the said protecting sleeve and to rock the said cover around a point of the periphery of the mouth of the said protecting sleeve, and a longitudinal groove within the said protecting sleeve adapted to receive the said actuating rod.

7. In a fountain pen holder, the combination of a pen holder body, a protecting sleeve for the pen and a rocking cover for the said protecting sleeve, with an actuating mechanism for the said cover comprising an actuating rod means for operatively connecting the said actuating rod with the said cover, means for moving the said actuating rod longitudinally relatively to the said protecting sleeve, the last named means comprising two superposed stops separated from each other by a notch on the said actuating rod and a shoulder on the said pen holder body, the said shoulder being adapted to engage one of the said stops when the pen holder body moves in one direction and to engage the other of the said stops when the pen holder body moves in the opposite direction, the said means for operatively connecting the said actuating rod with said cover being adapted to force the said cover into the entire periphery of the mouth of the said protecting sleeve and to rock the said cover around a point of the periphery of the mouth of the said protecting sleeve, and a longitudinal groove within the said protecting sleeve adapted to receive the said actuating rod, the bottom end of any of the said parts actuating rod and longitudinal groove being bevelled.

8. In a fountain pen holder, the combination of a pen holder body, a protecting sleeve for the pen and a rocking cover for the said protecting sleeve, with an actuating mechanism for the said cover comprising an actuating rod, means for operatively connecting the said actuating rod with the said cover means for moving the said actuating rod longitudinally relatively to the said protecting sleeve, the last named means comprising two superposed stops separated from each other by a notch on the said actuating rod and a shoulder on the said pen holder body, the said shoulder being bevelled on its top face and the upper stop being bevelled on its bottom side and the said shoulder being adapted to engage one of the said stops when the pen holder body moves in one direction and to engage the other of the said stops when the pen holder body moves in the opposite direction, the said means operatively connecting the said actuating rod with the said cover.

9. In a fountain pen holder the combination of a pen holder body, a protecting sleeve for the pen and a rocking cover for the said protecting sleeve with an actuating mechanism for the said cover comprising an actuating rod, means for operatively connecting the said actuating rod with the said cover, means for moving the said actuating rod longitudinally relatively to the said protecting sleeve, the last named means comprising two superposed stops separated from each other by a notch on the said actuating rod and a shoulder on the said pen holder body, the said shoulder being bevelled on its top face and the upper stop being bevelled on its bottom side and the said shoulder being adapted to engage one of the said stops when the pen holder body moves in one direction and to engage the other of the said stops when the pen holder body moves in the opposite direction, the said means operatively connecting the said actuating rod with the said cover, and a guiding ring secured within the protecting sleeve for guiding the actuating rod and limiting its inward movement.

10. A fountain pen comprising a pen barrel, an outer sleeve and a protecting sleeve, said outer sleeve being freely rotatable on the pen barrel and secured against axial movement, and also loosely rotatable on the barrel and on the outer side of the protecting sleeve.

11. A fountain pen as set forth in claim 10, in which the barrel of the pen is provided with an annular flange at a distance from its free end, and including a rear closing cap having a flange so that there is formed between said last named flange and the flange of the pen barrel an annular groove, wherein the inner end of the outer sleeve is rotatable without being axially displaceable.

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