

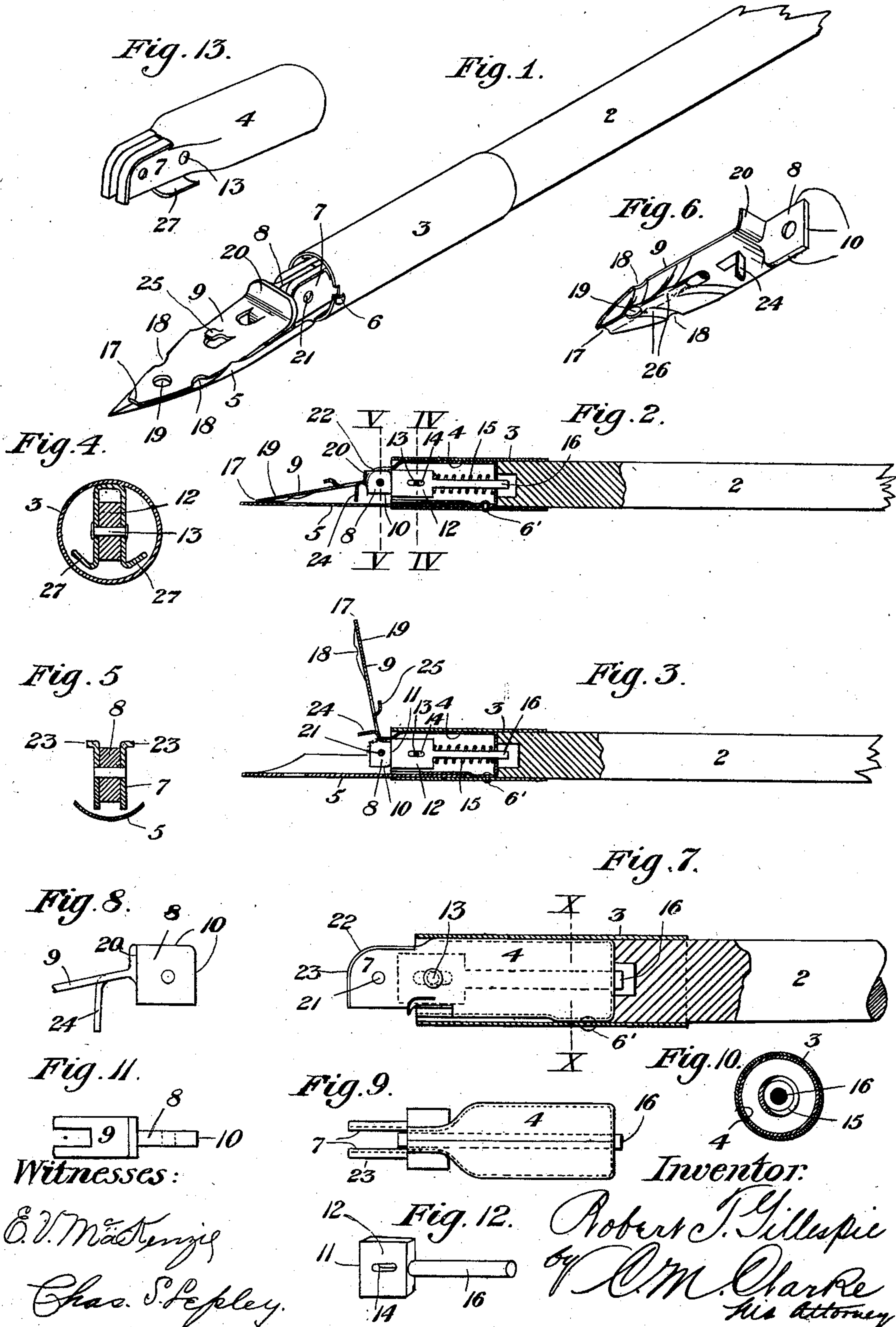
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Patented Sept. 2, 1902.

R. T. GILLESPIE.
FOUNTAIN PEN.

(Application filed June 26, 1901.)

(No Model.)



Witnesses:

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UNITED STATES PATENT OFFICE.

ROBERT T. GILLESPIE, OF ROCHESTER, PENNSYLVANIA.

FOUNTAIN-PEN.

SPECIFICATION forming part of Letters Patent No. 708,221, dated September 2, 1902.

Application filed June 26, 1901. Serial No. 66,080. (No model.)

To all whom it may concern:

Be it known that I, ROBERT T. GILLESPIE, a citizen of the United States, residing at Rochester, in the county of Beaver and State of Pennsylvania, have invented certain new and useful Improvements in Fountain-Pens, of which the following is a specification, reference being had therein to the accompanying drawings, forming part of this specification, in which—

Figure 1 is a perspective view of my improved fountain-pen. Fig. 2 is a longitudinal sectional view showing the lid closed. Fig. 3 is a similar view showing the lid raised. Fig. 4 is a cross-sectional view, on an enlarged scale, indicated by the line IV IV of Fig. 2. Fig. 5 is a similar view indicated by the line V V of Fig. 2. Fig. 6 is a detail perspective view of the pivoted lid, showing the under side corrugated to facilitate flow of the ink. Fig. 7 is a longitudinal sectional view, on an enlarged scale, showing the lid holding and controlling ferrule in elevation. Fig. 8 is a detail side view of the inner end of the ink-retaining lid. Fig. 9 is a plan view of the ferrule from above. Fig. 10 is a cross-sectional view on the line X X of Fig. 7. Fig. 11 is a detail plan view of the inner end of the retaining-lid. Fig. 12 is a detailed view of the spring-controlled pressure-dog, which bears upon the shoulder of the lid. Fig. 13 is a perspective detail view of the inner ferrule.

My invention relates to improvements in fountain-pens, more particularly to that class of pens wherein the ink is stored between the pen-point and an adjacent closing-wall; and it refers to the particular construction and arrangement of such wall, the means by which it is maintained and adjusted in relation to the pen-point and also held away therefrom, as well as to the various other details of construction, as I shall now proceed to describe.

Referring to the drawings, 2 is the main stem of the holder, to the lower extremity of which is secured in any suitable or preferred manner the ferrule 3, adapted to receive and hold between it and the inner lid supporting and controlling ferrule 4 the pen-point 5, which may be the ordinary steel or other pen-point of commerce and which may be renewed from time to time in the usual manner.

The inner ferrule 4 consists mainly of a cylindrical barrel-shaped body portion adapted to fit within the outer ferrule 3 and to be held therein by any suitable means or device—as, for instance, a lip 6—which may be turned out around the outer ferrule, as shown in Fig. 1, or at any other position, so as to securely hold the parts together, or these parts may be held together in any suitable or convenient manner which is adapted to the purpose in view—as, for instance, a rivet 6', as in Figs. 2, 3, and 7. I do not, however, desire to be limited to either of such holding means, as others may be easily substituted therefor by the skilled mechanic. The ferrule 4 terminates at its forward end in cheeks 7, closely adjacent to each other, between which is pivoted the inner end 8 of the lid 9, such inner end being provided with flat bearing faces or shoulders 10, against which abuts the corresponding flat face or shoulder 11 of the dog 12. This dog is mounted between the cheeks 7, being secured in position by rivet 13, a slot 14, through which the rivet passes, providing clearance for longitudinal play. This rivet may, if desired, be extended or lengthened, so as to pass through the walls of the outer ferrule, by which means both ferrules may be accurately fastened together. The dog is held normally forward by pressure of a coiled spring 15, mounted within a cylindrical portion of ferrule 4, surrounding a backwardly-extending stem 16 of the dog, and it will be seen that when the lid is lowered upon the pen-point, as in Fig. 2, the pressure of the dog will hold it thereon, and when raised, as in Fig. 3, the pressure of the dog will likewise hold it in such erected position by its bearing upon the face 10. The lid 9 is cut off at its lower point, as at 17, so that an open space is left for a short distance above the pen-point, through which the ink may flow down to the pen-point, while above such cut-off point 17 on each side of the lid are made lateral openings 18 in the sides of the lid, through which when the lid is upon the pen-point the ink will flow so as to fill the inner cavity up to such opening. In any suitable position above the lip may also be provided one or more holes 19, through which ink may also flow in filling the pen and through which air may freely enter and facilitate the flow

of the ink in the operation of writing. The lid is formed of thin sheet metal pressed or stamped or otherwise suitably formed and terminates at the back in the inner end 8, which I have already described, the middle portion of the lid 9 being turned up, as shown at 20.

In the operation of raising the lid it will be seen that such turned-up portion will describe the arc of a circle around the securing-pivot 21, and the cheeks 7 are therefore rounded, as shown at 22, and for the purpose of strengthening them they are provided with the reinforcing-flanges at 23. For the purpose of positively limiting the downward movement of the lid a portion 24 may be forced out, as shown, of proper length to bear upon the shank of the pen-point when lowered, as shown in Fig. 2, by which undue pressure upon the pen-point is relieved. For the purpose of lifting a similar lid 25 may be forced out from above, while for the further purpose of providing better adhering surface for the ink upon the innerside, as well as for strengthening the lid, it may be corrugated or fluted, as shown at 26 in Fig. 6. These corrugations may be in any form or arrangement which is best adapted for the purpose of delivering the ink to the tip of the lid and may conveniently consist of a central flute or gutter with lateral gutters leading into it, as shown, or in any other form or arrangement desired. This is a valuable and an efficient feature of my invention, since it greatly facilitates the flow of the ink toward the tip.

The inner ferrule is provided with rounded flanges 27, between which and the outer ferrule the pen-point is inserted and firmly held, the flanges being formed integral with the inner ferrule and turned outwardly at each side in a manner similar to the rounded reinforced edges 22 of the cheeks.

It will be noted that the lid is pivotally mounted in the independent barrel or ferrule and has no fixed attachment to the pen-point, thus permitting such pen-point to be removed, adjusted, or cleaned by simply turning the lid up, and such construction provides a serviceable device for the objects in view, while providing a penholder capable of being used with almost any standard pen-point, as may be preferred by the user, which may be renewed at pleasure.

The device is very simple in construction, cheap and easy to make and use, and produces an article for the purpose in view which obviates the necessity of frequent dipping of the pen-point in the ink, and its advantages and desirability will be readily appreciated by all writers.

Various changes and modifications may be made in the specific details of construction without departing from the invention as covered by the following claims.

What I claim is—

1. A penholder provided with means for holding the pen, a pivoted lid provided with

bearing-shoulders adapted to be raised from and to be closed upon and to form with the pen an ink-holding cavity, and a spring-controlled dog adapted to bear against the shoulders and to hold the lid in a lowered or raised position.

2. A penholder provided with an inner ferrule and adapted to form with the ferrule of the penholder a pen-retaining socket, a lid pivotally mounted in the inner ferrule provided with shoulders, and a spring-controlled dog adapted to bear against shoulders upon the lid angularly arranged with relation to each other, and to hold it in a lowered or raised position respectively.

3. The combination with an outer penholder-ferrule, of an inner ferrule, a lid pivotally mounted in the inner ferrule provided with a shoulder, a spring-controlled dog adapted to bear against the shoulder of the lid, and means for connecting the outer and inner ferrules.

4. The combination of an outer penholder-ferrule and an inner ferrule provided with forwardly-extending cheeks, an ink-retaining lid pivotally mounted between the cheeks and provided with shoulders, a spring-controlled dog adapted to bear against the shoulder, and means for securing the outer and inner ferrules together.

5. A cylindrical ferrule adapted to be inserted in the ferrule of the penholder, having forwardly-extending cheeks, a lid pivotally mounted between the cheeks provided with shoulders, and a spring-controlled dog mounted within the ferrule and adapted to bear against the shoulders and to hold the lid in a lowered or raised position respectively with relation to the pen-point.

6. A cylindrical ferrule adapted to be inserted within the ferrule of a penholder having outwardly-extending cheeks, a lid pivotally mounted between the cheeks provided with shoulders, perforations, corrugations and raised portions for the purpose described, and a spring-controlled dog adapted to bear against the shoulders and to hold the lid in a lowered or raised position respectively with relation to the pen-point.

7. A cylindrical ferrule provided with forwardly-extending cheeks, rounded and reinforced substantially as shown and described, an ink-retaining lid pivotally mounted between the cheeks, and a spring-controlled dog adapted to bear against the lid and to hold it in a lowered or raised position, respectively with relation to the pen-point.

8. A cylindrical ferrule provided with forwardly-extending cheeks rounded and reinforced substantially as described, an ink-retaining lid pivotally mounted between the cheeks, provided with bearing-shoulders, a dog adapted to bear against the shoulders, said dog having a stem and a coiled spring surrounding the stem on the dog and inclosed within the cylindrical ferrule.

9. The combination of an outer penholder-

ferrule and an inner cylindrical ferrule provided with forwardly-extending reinforced cheeks, an ink-retaining lid pivotally mounted between the cheeks provided with bearing-shoulders at its inner end, a spring-controlled dog located within the inner ferrule and adapted to exert holding pressure upon the shoulders of the lid and means for connecting the parts together, substantially as set
10 forth.

10. A penholder provided with means for holding the pen, a pivoted lid provided with bearing-shoulders adapted to be raised from

and to be closed upon and to form with the pen an ink-holding cavity, provided with 15 grooves on its under surface leading to its tip, and a spring-controlled dog adapted to bear against the shoulders and to hold the lid in a lowered or raised position.

In testimony whereof I affix my signature 20 in presence of two witnesses.

ROBERT T. GILLESPIE.

Witnesses:

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SAMUEL B. WEBSTER.