Oct. 16, 1934. H. POHLE 1,977,527

FOUR COLOR FOUNTAIN PEN

Filed June 28, 1934

Fig. 1.

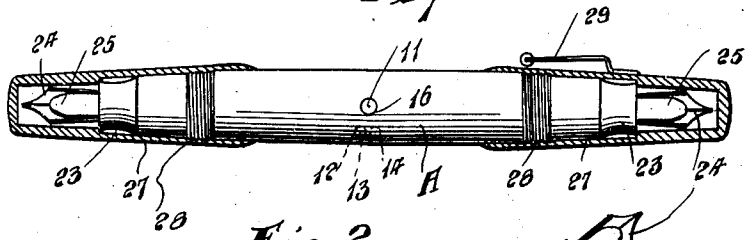


Fig. 2.

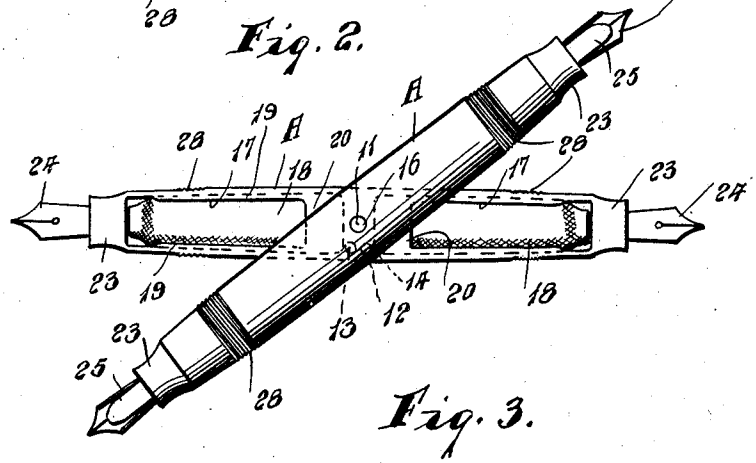


Fig. 3.

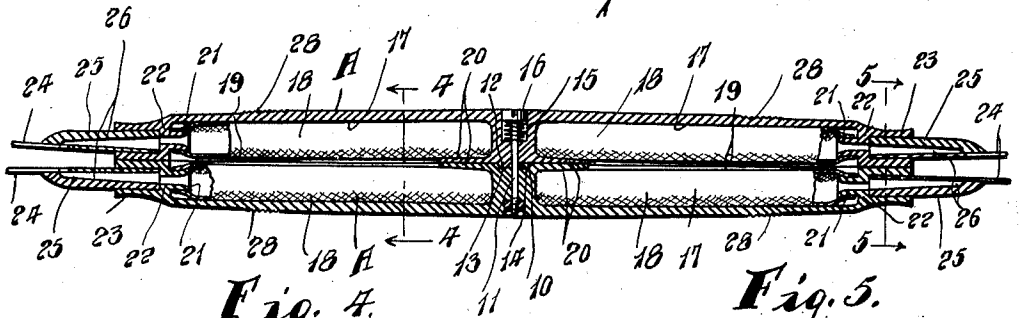


Fig. 4.

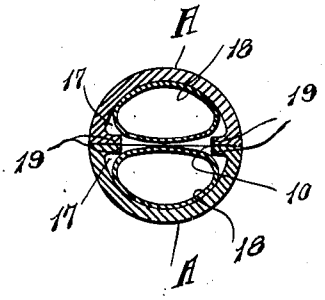
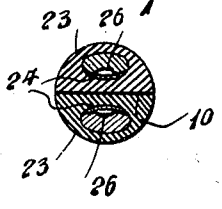


Fig. 5.



Inventor

Hermann Pohle.

By L. F. Randolph Jr.

Attorney

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FOUR COLOR FOUNTAIN PEN

Hermann Pohle, Stamford, Conn.

Application June 28, 1934, Serial No. 732,900

5 Claims. (Cl. 120—42)

This invention relates to a fountain pen and it aims to provide a relatively inexpensive, durable and compact construction which combines four fountain pens in one, yet maintaining the barrel and pen points of normal size, and affording a considerable amount of ink for each point. The invention enables four different colors of ink to be used or four separate supplies of ink even of the same color, with four different styles of pen points.

It further aims to provide a construction which will eliminate any mechanical appliance which must be operated incidental to the shifting from one color or pen point to another color or pen point, and also without interfering with fluent writing.

It is further aimed to provide a construction which eliminates any mechanical device necessary for the filling of the ink sackets or bladders, thus dispensing with the usual levers, wire rings, locking pins, rivets, pressure bars and the like.

The more specific objects and advantages will in part be pointed out hereinafter and otherwise become apparent from a consideration of the description following taken in connection with accompanying drawing, illustrating an operative embodiment.

In said drawing:—

Figure 1 is a view of the pen primarily in elevation, the end caps being shown in central longitudinal section to disclose details;

Figure 2 is an elevation of the fountain pen with the caps removed, and one section disposed at an angle to the other as is done when filling;

Figure 3 is a central longitudinal sectional view through the fountain pen with the caps removed;

Figure 4 is a cross sectional view taken on the line 4—4 of Figure 3, and

Figure 5 is a cross sectional view taken on the line 5—5 of Figure 4.

Referring specifically to the drawing, wherein like reference characters designate like or similar parts throughout the different views, the pen comprises two similar sections A, which collectively are generally cylindrical, each section A thus being substantially semi-cylindrical in cross section, and engaging on a diametric plane at 10. Said sections A are held together by means of a bolt 11 passing therethrough centrally and located completely within the periphery of the pen, in combination with a lug 12 on one of the sections A which is selectively engageable in recesses 13 and 14 of the other section, in writing or closed position, and in the filling position of Figure 2, respectively. As one section A is turned respectively to the other section, the sections yield automatically since an expansive spring 15 surrounds the bolt 11 between its head 16 and the adjacent section as best shown in Figure 3. The sections thus have a snap action when the lug 12 engages the notches or recesses 13 and 14.

The ends of sections A are recessed or hollow as at 17 to provide barrels in which ink sacks or bladders 18 are disposed. Said barrels or recesses 17 are open in the aforesaid plane 10 and to aid in retaining and supporting the bladders 18, marginal flanges 19 are provided on the sections in said plane 10, such flanges preferably being wider at the inner ends 20 than at the sides. The bladders 18 thus being exposed, are engageable by the fingers or an instrument to expel air to facilitate filling. Said bladders are preferably of the usual rubber construction and telescopically grip the exterior of tubes 21 of the barrel which are integral with a transverse wall 22 and communicate with end sleeves 23, which are semicircular in cross section, like the remainder of the sections.

Suitable pen points 24 are removably disposed in the sleeves 23, and held friction tight by means of removable feeder bars 25 also extending into said sleeves. Said feeders 25 have channels 26 to convey the ink from the sacks 18, through the tubes 21, apertures in the wall 22 to the opening in the split pen point.

As a result of the construction described, when it is desired to fill either of the bladders 18, the pen sections are swung from normal position, in which they are held through the interengagement of the lugs 12 and notch 13, into the position of Figure 2 where they are so held through the interengagement of the lugs 12 and recess 14. In this position, any of the pens may be disposed within a supply of ink following expulsion of air from the bladder by engagement of the finger or instrument therewith through the open side of the barrel in the plane 10. When the pen is filled, the writer may use either of the points. As intimated, each sack may contain an ink of different color or, if desired, they may all contain ink of the same color and each point may be a different style.

The pen is preferably equipped with detachable end caps as at 27 engageable with the sections at screw-threads 28. One of the caps preferably is provided with an attaching clip as at 29.

The ends of the barrel may be equipped with plates, dots or other insignia of different color

corresponding with the color of the ink contained in that end.

The invention eliminates the inner walls of the barrel, lever parts, and an ink feeder socket, and thus enables the ink sacks to be made larger and closer fitting to the barrel walls.

Various changes may be resorted to provided they fall within the spirit and scope of the invention.

I claim as my invention:—

1. A fountain pen having two sections, means pivotally mounting and normally holding said sections in alinement, each section having a fountain pen unit including a barrel, and the barrels being each provided with an opening in the portion facing the other barrel, which openings are closed when the barrels are in alinement.

2. A fountain pen having two sections, means pivotally mounting and normally holding said sections in alinement, each section having a fountain pen unit including a barrel, and the barrels being each provided with an opening in the portion facing the other barrel, which openings are closed when the barrels are in alinement, said means comprising a bolt, interengaging recesses and a lug on said sections to hold the sections in normal position and in angular positions, and spring means associated with the bolt normally maintaining the lug in engagement with one of the recesses.

3. A fountain pen having two sections, means pivotally mounting and normally holding said sections in alinement, each section having a fountain pen unit including a barrel, and the barrels being each provided with an opening in the portion facing the other barrel, which openings are closed when the barrels are in alinement, each fountain pen unit having a transverse wall, a nipple on the inner side of said wall, and a tube on the outer side of said wall, a bladder engaging said nipple and manually engageable through said opening for refilling, and a fountain pen point and feeder engaged in the tube.

4. A fountain pen construction comprising two sections pivotally secured together intermediate of their ends, each section having a complete fountain pen at each end thereof, means normally securing the sections in alinement and permitting angular displacement thereof for individual filling of the fountain pen, and each of said barrels having an opening therein in the portion facing another barrel, which openings are closed when the barrels are in alinement.

5. A fountain pen construction of the class described having two sections, means pivotally connecting the sections together intermediate of their ends, a point and feeder bar at each end of each section and a barrel cooperating therewith, an individual ink supply means for each feeder bar and point mounted in each barrel, and each of said barrels having an opening therein in the portion facing another barrel, which openings are closed when the barrels are in alinement.

HERMANN POHLE.