March 2, 1926. 1,574,929

R. T. POLLOCK

FOUNTAIN PEN

Original Filed April 1, 1922

Fig. 1.

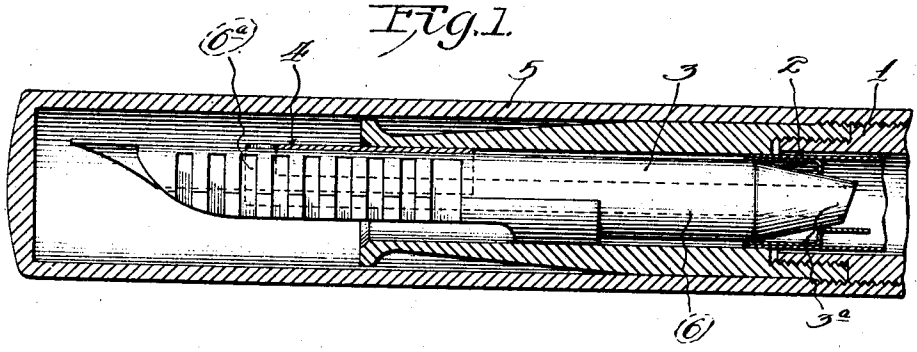


Fig. 2.

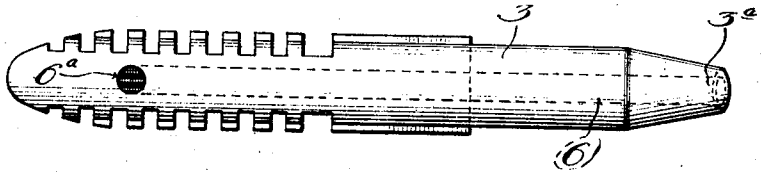


Fig. 3.

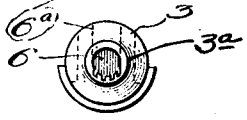
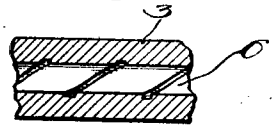


Fig. 4.



Witness:

Inventor:
Robert T. Pollock.

by Frank L. Belknap. Atty

'atented Mar. 2, 1926. 1,574,929

UNITED STATES PATENT OFFICE.

ROBERT T. POLLOCK, OF BOSTON, MASSACHUSETTS.

FOUNTAIN PEN.

Application filed April 1, 1922, Serial No. 548,687. Renewed May 4, 1925.

To all whom it may concern:

Be it known that I, ROBERT T. POLLOCK, a citizen of the United States, residing in the city of Boston, county of Suffolk, and State of Massachusetts, have invented certain new and useful Improvements in Fountain Pens, of which the following is a specification.

This invention relates to improvements in fountain pens and refers more particularly to the feed of a fountain pen in which the ink instead of flowing through an open channel in the top of the feed, is conducted to the pen point through a closed duct so that the ink is delivered near the end of the pen and is prevented from seeping to the sides of the pen as it does in common practice.

Fig. 1 is a sectional view of the feed portion of the pen. Fig. 2 is a top view of the feed. Fig. 3 is an end view taken from the end of the feed which is inserted in the barrel of the pen. Figure 4 is a longitudinal sectional view of a portion of the feed.

Referring to the drawings, the improved type of pen feed is shown inserted in the barrel of a pen 1 which has inserted therein a capsule or ink container 2 serving as a reservoir for the ink supply. The pen feed 3 is inserted in the open end of the pen and has mounted upon a saddle formed in the top of the feed, a pen point 4. The closure cap 5 is shown screwed in position on the pen barrel. The pen feed is shaped at 3^a to form a puncturing point so that when the capsule or ink container is placed in the barrel, it is punctured by the end of the feed and the ink permitted to flow through the duct 6 of the pen feed. This duct as shown in Figs. 1 and 2 is nothing more than a cylindrical hole bored longitudinally of the pen feed, extending substantially its length. It is open so that the ink from the ink container or cartridge can flow freely along the duct and rise onto the short well 6^a which connects with the horizontal duct and extends at right angles thereto to the surface of the pen feed beneath the pen point. Thus the ink is delivered through a closed duct from the ink container or ink supply directly to the pen and is not permitted to flow down an open top duct as is commonly the practice, along the top of the feed from which it seeps to either side of the feed and pen point, producing accumulations of solid and semi-solid substances which are objectionable as they obstruct the free flow of ink from the ink supply to the pen point and produce a very uncleanly condition about the end of the pen point and ink feed. By delivering the ink substantially to the end of the pen point by means of a closed duct as shown, the seepage beneath the pen to both sides of the feed is practically eliminated, and practically all of the ink delivered directly to the writing point. If desired, the duct may be rifled by or spiral riflings to permit the free flow of air both to and from the ink supply and assist in producing a constant and free flow of ink in writing.

Although this type of feed has been shown in connection with a cartridge pen, it is understood that it may be used in connection with any type of fountain pen in which the ink is conducted from an ink supply in the barrel and delivered to the pen point.

I claim as my invention:

1. In a fountain pen, the combination with a pen barrel containing the ink supply, of a pen mounted therein, an ink feed communicating between the ink supply and the pen point, said ink feed comprising a member having a closed rifled duct extending longitudinally its length and adapted to deliver the ink from the ink supply substantially at the writing point of the pen.

2. In a fountain pen, the combination with a pen barrel containing the ink supply, of a pen mounted therein, an ink feed communicating between the ink supply and the pen point, said ink feed comprising a member having a closed duct longitudinally grooved at its bottom and rifled throughout its length to facilitate the passage of air and ink, said duct extending longitudinally the length of the feed member and adapted to deliver ink from the ink supply substantially at the writing point of the pen.

3. In a fountain pen, the combination with a pen barrel containing the ink supply, of a pen mounted therein, an ink feed communicating between the ink supply and the pen point, said ink feed comprising a member having a closed duct longitudinally grooved to facilitate the passage of air and ink, said duct extending longitudinally the length of the feed member and adapted to deliver ink from the ink supply substantially at the writing point of the pen.

ROBERT T. POLLOCK.