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# PATENT SPECIFICATION

**420,064**

Application Date: Aug. 31, 1934. No. 25,114/34.

Complete Accepted: Nov. 23, 1934.

## COMPLETE SPECIFICATION.

### Improvements in or relating to Fountain Pens.



I, MARK SYDNEY FINBURGH, a Subject of the King of Great Britain, of 143, Holborn, London, E.C. 1, do hereby declare the nature of this invention and in what manner the same is to be performed, to be particularly described and ascertained in and by the following statement:—

This invention relates to fountain pens and particularly to the method of securing the nib and ink feeder bar in the nib section of the barrel, and an object of the invention is to provide an improved manner of securing the pen nib and the ink feeder bar in position in the nib section of the pen barrel, so as to avoid the difficulties which arise when it is desired to remove a nib which is secured in the usual manner, that is to say, in which the nib is frictionally gripped between the ink feeder bar and the bore or socket in the end of the nib section of the barrel into which the ink feeder bar fits, the feeder bar and nib being plain and smooth and being a push fit in the nib section, the bore through which is made smooth to correspond.

With the above described usual form of construction, it may be difficult, after prolonged use of the pen, to remove the nib and feeder bar for cleaning purposes or for inserting a fresh nib when the original nib has become worn or damaged, the difficulty in removing the feeder bar and nib being largely due to the solid inky deposit which forms on the nib and feeder bar and holds the feeder bar and nib tightly in the nib section of the barrel so that there is a danger of damaging or breaking the feeder bar and nib during the process of removal.

According to the present invention the nib and feeder bar of a fountain pen are secured in position in the end of the nib section of the barrel by providing the non-pointed end of the nib with clips or projections which grip the feeder bar, and preferably curve round to form practically a cylindrical sleeve which is of such size as to slide tightly over the feeder bar, the surface of which is made plain or smooth to enable it to be easily fitted into the clips, and the non-pointed end of

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the nib is also formed with a portion of an external screw thread so that the nib with the ink feeder bar secured against it can be screwed into the bore of the nib section of the barrel, this bore being provided with an internal screw thread which corresponds with the screw threads formed on the nib.

The invention also includes a pen nib having clips for gripping the ink feeder bar and its non-pointed end provided with screw threads, for use in a fountain pen having its nib and feeder bar secured in the manner above described.

A construction of pen according to the invention is illustrated in the accompanying drawing in which:—

Fig. 1 is a side elevation of a nib according to the invention.

Fig. 2 is a side elevation of the end of the ink feeder bar which fits against the nib.

Fig. 3 is an underside view of the nib and feeder bar shewing the nib in position on the feeder bar, and Fig. 4 is a part sectional view of the feeder bar and nib screwed in the nib section of the pen barrel.

The nib is formed so as to have the usual pointed or writing end or portion 1 and from this project two short clips 2, one on either side, while the non-pointed end of the nib has larger pieces or clips 3 which are bent round to form practically a complete cylindrical sleeve which fits over and grips the main portion of the ink feeder bar.

The top face of the nib is provided with portions of external screw threads 4 which correspond with the internal screw thread formed in the bore of the nib section of the pen barrel.

The main portion of the ink feeder bar 5, as shown in Fig. 2, is of plain cylindrical form and is provided with ink ducts 6 and is bevelled or tapered off at one end, in the usual manner, as shown at 7, but where the tapered portion 7 meets the plain cylindrical part 5 a shoulder 8 is formed at each side of the feeder bar for the purpose hereinafter mentioned.

In assembling the pen, the tapered end

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of the ink feeder bar is pushed through the cylindrical clips 3 of the nib until the shoulders 8 on the feeder bar abut against the clips 2 which are bent inwardly more than the clips 3 so that they grip the tapered portion 7 of the feeder bar at the point where it merges into the cylindrical part 5, that is just in front of the shoulders 8. The tapered portion 7 thus extends along the underside of the nib in the usual manner to supply ink to the writing point and the positions of the feeder bar and nib will be as shown in Fig. 3.

The nib and feeder bar are then secured in the nib section 9 of the pen barrel by screwing the nib with the feeder bar which it grips into the screwed bore 10 of the nib section by means of the screw threads 4 on the outside of the nib as shown in Fig. 4.

The supply of ink within the pen barrel may be contained in the usual rubber sac or in any other convenient manner and the ink is supplied to the nib through the ducts 6 on the feeder bar.

By securing the nib and feeder bar in position in the manner above described it is possible to hold the nib and feeder bar securely in position in the nib section of the pen barrel, although the parts can be readily detached when necessary for cleaning or repair by unscrewing the nib with its feeder bar from the nib section of the barrel and the feeder bar can then be slid out from the clips by which it is secured against the nib.

With the construction according to the invention there is little danger of a deposit forming so as to stick the parts together, while the unscrewing action necessary to remove the nib and feeder bar from the pen barrel assists in breaking up any deposit which may form.

Having now particularly described and ascertained the nature of my said invention and in what manner the same is to be performed, I declare that what I claim is:—

1. A fountain pen having its nib and

ink feeder bar secured in the nib section of the pen barrel by providing the nib with clips which grip the feeder bar, while the non-pointed end of the nib is provided with portions of external screw threads corresponding with an internal thread in the bore of the nib section of the barrel so that the nib and the feeder bar which it grips can be screwed together into the nib section of the pen barrel.

2. A fountain pen having its nib and ink feeder bar secured in the nib section of the pen barrel by providing the non-pointed end of the nib with clips, which curve round to form practically a cylindrical sleeve which surrounds and grips a cylindrical part of the feeder bar, and with portions of external screw threads corresponding with an internal thread in the bore of the nib section of the barrel so that the nib and the feeder bar which it grips can be screwed together into the nib section of the pen barrel.

3. A fountain pen having its nib and ink feeder bar secured in the manner described with reference to the accompanying drawings.

4. For use in a fountain pen in which the nib is secured in the manner according to Claim 1, a nib having clips adapted to grip the feeder bar of the pen and having its non-pointed end formed with portions of external screw-threads corresponding with internal threads in the bore of the nib section of the pen barrel.

5. For use in a fountain pen in which the nib is secured in the manner according to any of Claims 1 to 3, a nib constructed as described with reference to Fig. 1 of the accompanying drawings.

Dated this 31st day of August, 1934.

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FIG. 1.

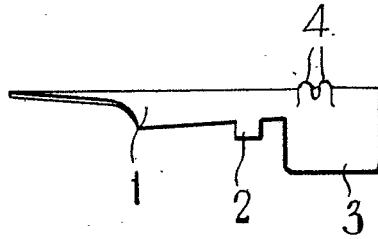


FIG. 2.

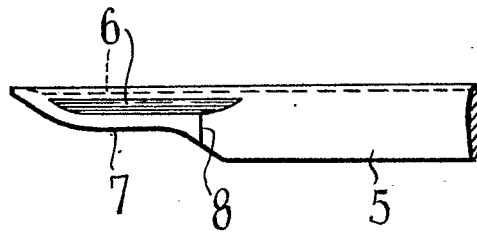


FIG. 3.

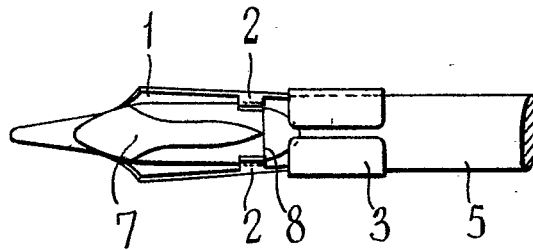
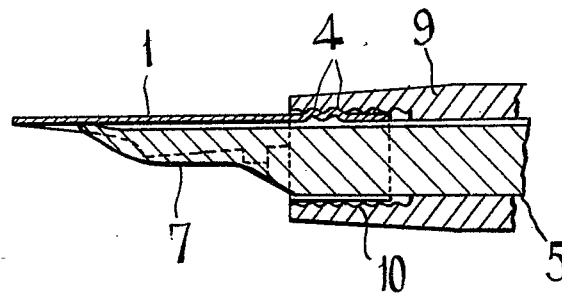


FIG. 4.



[This Drawing is a full-size reproduction of the Original.]