

# PATENT SPECIFICATION

245,448

Convention Date (Germany): Jan. 5, 1925.

Application Date (in United Kingdom): Dec. 28, 1925. No. 32,762 / 25.

Complete Accepted: Aug. 26, 1926.

COMPLETE SPECIFICATION.



## Improvements in or relating to Fountain Pens.

I, ISAIA LEVI, an Italian subject, trading as the firm Fabbrica Italiana di Penne a Serbatoio "Aurora", of 9, via Basilica, Turin, Italy, 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This invention relates to fountain pens of the type in which the nib may be withdrawn into the pen-barrel when not in use, and projected therefrom for writing purposes. Fountain pens of this type are known in which the nib is carried by an element comprising the flexible receptacle for the ink and movably mounted in the barrel, the end aperture of which is closed by a blade adapted to be moved aside for opening it.

According to the invention the element in which the metal nib is mounted and which carries the ink container, is mounted in the barrel so that it can assume two different external positions. In one position, namely the writing position, the nib alone projects beyond the barrel, while in the other position the device enabling the ink container to be compressed for filling purposes, is likewise withdrawn from the barrel.

Thus, when the pen is being filled, the end of the nib to be immersed in the ink, can be carefully cleaned, and it is possible to avoid soiling the aperture of the barrel, the result of which would be friction between the movable elements.

A fountain pen according to the present invention is shown by way of example on the annexed drawings in which—

Figure 1 is a central section with the nib withdrawn into the pen-barrel.

Figure 2 is an outer view, partly in section, with the pen in position for use;

Figure 3 is a side view of the pen with parts in position for filling;

Figure 4 shows the nib end of the pen in detail on a larger scale;

Figure 5 is a transverse section on a larger scale on line X—X of Figure 1.

In the hollow body 1 which has fastened to it at one end the metal nib 2, is located a flexible receptacle 3, say of rubber. A stiff blade 4 extends in contact with said ink receptacle 3 and has a stud 5 projecting through an opening 6 provided in the body 1. The body 1 is located in a barrel 7 closed at one end by a cap 8, while at its other end it has a pivoted and movable closing member 9, said barrel having a slot 10. In said slot 10 is adapted to move a stud 11 solid with the body 1 and in the barrel 7 is located a split ring 12 having a web 12<sup>1</sup>, said ring being adapted to leave said slot 10 free or to obstruct it.

In the example illustrated, the closing member 9 is pivoted on the edge of the barrel 7 which is preferably provided with a ring 13.

The closing member 9 is held in closed position by means of a tooth 14 of a spring blade 15 fastened to the barrel 7 as shown in Figure 4 and having also a projection 16 intended to be engaged by the body 1 at the beginning of its displacement for carrying the pen into writing position. The cover 9 is bent so as to lie close against the body 1 when projected out of the barrel 7 and is provided with a spring acting to hold it usually in open position.

In inoperative conditions the pen is entirely closed, the nib being enclosed within the barrel 7 and the cover 9 being closed. To bring the nib into writing position, the stud 11 is shifted along the slot 10. The front end of the body 1 acts firstly on the projection 16 of blade 15 and shifts it to release the cover 9 which is then free to open. The subse-

[Price 1/-]

quent displacement of the body 1 causes the nib to project from the barrel 7 as shown in Figure 2. The displacement of the body 1 is restricted by the ring 12 which has usually the position shown in Figure 5, in which it lies across the slot 10.

To fill the pen the ring 12 is moved off by acting on its web 12<sup>1</sup> and the stud 11 is moved up to the end of the slot 10. The body 1 is thus caused to extend almost entirely out of the barrel 7 as shown in Figure 3. It is then possible to collapse the flexible receptacle 3 by acting on the stud 5 and then on having dipped the nib deeply into an ink container the pen is filled when the stud 5 is released.

The cover 9 may be substituted by a closing member of different type, if desired an automatic one, and if desired, one adapted to be opened and closed by the displacement of the body 1 with respect to the barrel 7.

The fountain pen described combines the advantages of pens having retractable nibs with those of self-filling pens, this being obtained by means of a very simple and strong construction providing for an easy manipulation. This advantage results from the fact that the body 1 is mounted to move longitudinally within a barrel which is closed at both ends when the pen is in inoperative condition.

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 a withdraw-

able nib, characterised in that the element which carries the nib and the compressible container for the ink, is mounted in a pen-barrel so that it may be brought into two different external positions, in relation to the pen-barrel, in one of which the nib alone projects beyond the barrel, while in the other position also the device permitting the ink container to be compressed for filling purposes also projects beyond the barrel.

2. A fountain pen according to Claim 1, characterised by the fact that in a recess in the said barrel, is arranged a split ring adapted to obstruct or leave free a slot in which a stud solid with an internal body is adapted to move.

3. A fountain pen according to Claims 1 and 2, characterised by the fact that the flexible ink receptacle has along it a rigid blade having a stud in register with an opening of said body at a point which is outside of said barrel when said body is in its fully extended position.

4. A fountain pen according to Claim 1, in which the aperture of the pen-barrel at the nib-end is provided with a pivoted closing member which is bent so that it lies close against the body of the nib carrier when the latter projects beyond the pen-barrel.

5. The fountain pen substantially as described or substantially as illustrated in the accompanying drawings.

Dated this 28th day of December, 1925.

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*[This Drawing is a reproduction of the Original on a reduced scale.]*

