

PATENT SPECIFICATION



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392,482

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Patent of addition to No. 312,180, dated May 18, 1928, as improved upon or modified by No. 364,436 dated Feb. 6, 1931).

Complete Accepted: May 18, 1933.

COMPLETE SPECIFICATION.

Improvements in or relating to Fountain Pens.

I, LEOPOLD KUTTER, of Austrian nationality, of 4, Johann Hoffmannplatz, Vienna XII, Austria, 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:—

The present invention relates to an improvement in or modification of the fountain pen holder according to patents Nos. 312,180 and 364,436. The fountain pen holder is improved in such a manner that, in addition to the closing flap being automatically operated and closed when two tubes guided telescopically one within the other are displaced, it is also held in its closed position. For this purpose the nose-like end of the leaf spring referred to in patent No. 364,436 co-operates with a transverse notch of the inner tube, and also between the slidable tubes means are provided for securing the inner tube which is pushed back in the outer tube. This securing can be effected with various means and is advantageously obtained by means of a resilient rounded stop on the inner tube and an offset part of the outer tube.

The accompanying drawing illustrates a constructional example of the invention.

Figures 1 and 2 respectively show a closed and an extended pen, partly in longitudinal section, and in elevation.

Figures 3 to 6 show details.

The closing cap 15 as in patent No. 364,436, is arranged on a cap 20 placed on the outer tube 1, so as to swing about the hinge 21. Eccentrically to the hinge 21, namely, at 22, there engages hingedly with the closing flap 15, a leaf spring 23 slightly curved approximately in the form of an inverted S, which is mounted and guided substantially in an inner longitudinal groove 24 of the tube 1, and at the free end is formed with a kind of rounded nose 25.

In the constructional example illustrated the following arrangement is [Price 1/-]

novel.

The nose 25 co-operates with a transverse notch 32 in the sheet metal part 5 of the inner tube 2, 5 which runs out into a shallow axially extending depression 33 (see more particularly Figures 3 and 4). The part 5 of the inner tube 2, 5 is further provided with resilient rounded stops 34 which are formed, for example, by pressing out the material of the longitudinal springs 35 cut out from the part 5. These stops co-operate with an offset part 31 of the outer tube 1 (see more particularly Figure 5).

The mode of operation of the device is as follows:

In Figure 2, the nib 9 being pushed out, the leaf spring 23 is lightly depressed in the groove 24 by the sleeve 5 and the ink guide 10 of the inner tube 2, and the nose 25 on account of the spring action of the leaf spring 23 lies in the shallow depression 33.

When the inner tube 2, 5 is pushed back the closing flap 15 will remain open until the nose 25 springs into the notch 32 (see more particularly Figure 4).

At this moment the leaf spring 23 is carried along and thereby swings the closing flap 15 into the closed position (Figure 1). At the end of this stroke the resilient rounded stops 34 snap behind the offset part 31 in the manner shown in Figures 1 and 5, and at the same time a guiding pin 13 of the inner tube 2, 5 strikes on the end of a guiding groove 4 of the outer tube 1. The result of these two actions is to secure the inner tube 2, 5 within the outer tube 1 and at the same time a slight straightening (longitudinal tensioning) of the curved leaf spring 23 when the closing flap 15 is already closed, so that the latter is secured against opening.

When the inner tube 2, 5 is displaced from the position in Figure 1 to that in Figure 2 it is released because with a certain pressure the resilient projections 34 yield inwards and pass over the offset

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part 31 into the narrower part of the tube 1 in which they produce such friction that they hold the tubes 1 and 2, 5 in any relative position. The nose 25, after the spring 23 has been relieved from tension or after being moved back a little way within the notch 32, strikes against its opposite side so that the closing flap 15 is opened. When the inner tube 2, 5 is pushed further forwards the nose 25 comes out of the notch 32 and slides on the shallow depression 33.

The extension of the spring 35 beyond the projection 34 has the object of preventing pressure on the ink reservoir inside the tube. The guiding arrangement 4, 13 referred to preferably has the form shown in the patents Nos. 312,180 and 364,436. Figure 6 shows a part of the tube 1 according to the illustration in Figure 1. It is shown that at the ends of the grooves 24 and 4 a ring 36 is securely inserted which, at one side, forms the offset portion 31 and on the other side forms one end of the groove 4. The object of this arrangement is easy and correct manufacture of the grooves 24, 4 by means of continuously running cutters and the accurate fixing of the axial distance 37 of the offset portion 31 of the stop 38 for the pin 13.

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 holder as claimed in Specification No. 364,436, charac-

terised by the feature that the bent leaf spring engaging eccentrically with the closing flap co-operates with its nose-like end with a transverse notch of the inner tube and between the slidable tubes means are provided for automatically securing the inner tube in the retracted position in the outer tube so that the closing flap is held securely in the closed position.

2. A fountain pen holder as claimed in claim 1, characterised by the feature that the inner tube is automatically held in its retracted position by the co-operation of a resilient rounded stop of the inner tube with an offset part of the outer tube at the position of the end of the movement of the two tubes which is limited by a fixed stop.

3. A fountain pen holder as claimed in claim 2, characterised by the feature that the resilient rounded stop is cut out from the material of the inner tube.

4. A fountain pen holder as claimed in claim 2, characterised by the feature that the offset part of the outer tube and the end of the stroke of the two tubes are formed by a ring inserted at the end of the open guiding groove of the outer tube.

5. The improvement in or modification of the fountain pen holder according to Specification No. 364,436, substantially as described with reference to the accompanying drawings.

Dated this 21st day of December, 1932
MARKS & CLERK.

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

