

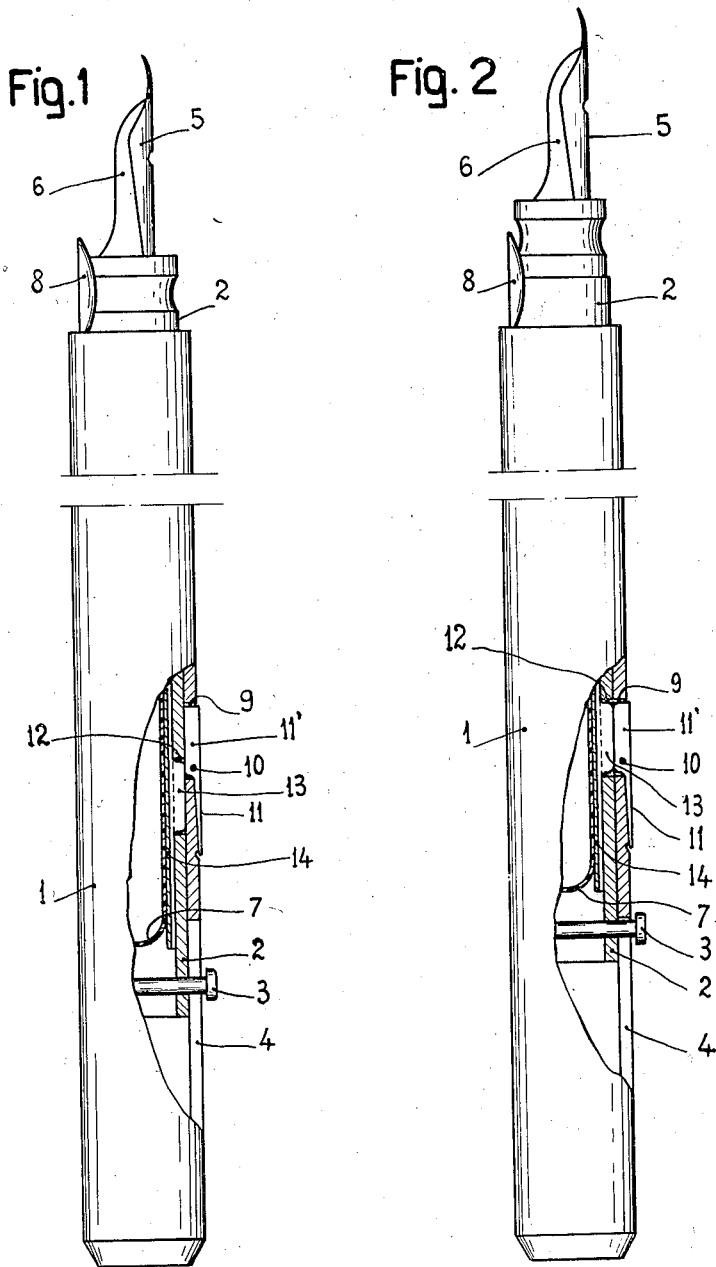
Nov. 26, 1929.

I. LEVI

1,737,463

FOUNTAIN PEN

Filed March 21, 1928



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# UNITED STATES PATENT OFFICE

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FOUNTAIN PEN

Application filed March 21, 1928, Serial No. 263,540, and in Germany April 2, 1927.

The present invention relates to fountain pens and more particularly to fountain pens of the kind comprising an outer barrel and a body mounted to reciprocate in said barrel, said body carrying the nib and ink reservoir and providing for retracting said nib within said barrel and for extending said nib from said barrel at will in a writing position and in a position for filling said reservoir with ink.

The present invention has for its object means for acting from outside on said ink reservoir to collapse it as required for filling operation.

Further the present invention comprises means for causing said means acting on said reservoir to be operative only when said pen body and associate parts are in position for filling operation.

On the annexed drawing is shown by way of example an embodiment of the present invention and

Figure 1 is a side view of the pen in writing position, with parts in section;

Figure 2 is a similar side view with parts in section the pen being in position for the filling operation.

In the embodiment illustrated the pen comprises an outer barrel 1 in which is mounted to reciprocate a sleeve 2 having a manipulating knob 3 which extends through a slot 4 of the barrel 1. Said sleeve 2 carries at its end a nib 5 and a nib carrier 6 and it has within it a collapsible ink reservoir 7. A shutting wing 8 is pivoted at the mouth of barrel 1 to close it when said sleeve 2 and associate parts are retracted.

When the pen is inoperative the body 2 and associate parts are retracted within the barrel and the shutting wing 8 is closed by suitable means as a spring not shown, the knob 3 being at this time at the lower end of the stroke along slot 4.

To carry the pen into writing position, the knob 3 is carried in the position of Figure 1 and then nib 5 extends from said barrel in writing position, the shutter 8 being moved off by the nib carrier 6 and the top portion of sleeve 2.

Finally to carry the pen into position for

the filling operation, the knob 3 and parts connected therewith are shifted to the position of Figure 2, the nib being thus extended from barrel 1 and being able to be dipped into an ink container.

As known, for filling the ink reservoir, this reservoir is collapsed and then it is left free to expand for entrance of ink thereinto under the action of atmospherical pressure.

For such a purpose in accordance with the present invention an opening 9 is provided in barrel 1 and in said opening is fulcrumed at 10 a lever 11 comprising an arm which extends over the outer surface of barrel 1 and a finger 11' adapted to enter the space inside the barrel 1. Further the sleeve 2 is provided with a restricted opening 12 in which enters an embossed portion 13 of a strip 14 extending in sleeve 2 adjacent to reservoir 7 and adapted to act on said reservoir to collapse it.

For filling the ink reservoir the parts of the pen are carried in the position of Figure 2 and then the lever 11 is grasped and rocked outwardly to cause the finger 11' to act on part 13 and strip 14 and to collapse the ink reservoir 7; the pen nib 5 and the nib carrier 6 are dipped in ink and lever 11 is moved down to release the reservoir for expansion and entrance of ink under the action of atmospherical pressure.

A feature of the present invention consists in that the finger 11' of lever 11 and strip 14 acting on the ink reservoir 7 are able to cooperate through the medium of part 13 only when the body 2 has been purposely carried in filling position, because in all other positions of said body 2 with respect to the barrel, the finger 11' of lever 11 has the solid portion of sleeve 2 in front of it and it cannot act on the ink reservoir.

This feature prevents ink from being inadvertently sprayed off from the pen as the lever 11 is prevented from being manipulated unless the pen has been purposely carried to filling position.

Of course the present invention is not restricted to the construction described and illustrated it being only defined by appended claims.

What I claim as my invention and desire

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to secure by United States Letters Patent is:—

- 5 1. A fountain pen comprising an outer barrel, a pen body mounted to move in said barrel, a nib on said body and a collapsible ink reservoir within said body, means for shifting said body to carry it and said nib in writing position and in reservoir filling position, a manipulating part mounted in 10 said barrel and adapted to extend thereinto, and reservoir collapsing means in said body for actuation by said manipulating part only when said body is in its reservoir filling position.
- 15 2. A fountain pen comprising an outer barrel, a pen body mounted to move in said barrel, a nib on said body and a collapsible ink reservoir within said body, means for shifting said body to carry it and said nib in writing position and in reservoir filling position, a manipulating part mounted in 20 said barrel and adapted to extend thereinto, and reservoir collapsing means in said body registering with said manipulating part and adapted to be actuated by it only when said body is adjusted to bring the reservoir to filling position.
- 25 3. A fountain pen comprising an outer barrel having an opening in its wall, a pen body mounted to move in said barrel, a nib on said body, a collapsible ink reservoir and a part for collapsing said reservoir within said body, means for shifting said body and nib thereof to writing and to another out- 35 ward position for filling said reservoir, said body having an opening registering with said barrel opening when said body is in filling position, and a manipulating member mounted in said barrel to extend through said 40 openings to act on said reservoir collapsing part when said body is in its said reservoir filling position, said manipulating member being restrained from movement by a portion of the body when said body is in its said 45 writing position.
- 50 4. A fountain pen comprising an outer barrel having an opening in its wall, a pen body mounted to move in said barrel, a nib on said body, a collapsible ink reservoir and a part for collapsing said reservoir within said body, means for shifting said body and nib thereof to writing position and to another outward position for filling said reservoir, said body having an opening registering with 55 said barrel opening when said body is in said filling position, and a manipulating member mounted in said barrel to extend through said openings when registering with each other to act on said reservoir collapsing part, said barrel opening being obstructed by a 60 part of the body for preventing the actuation of said manipulating member when said body is in a position other than said filling position.
- 65 5. A fountain pen comprising an outer bar-

rel having an opening in its wall, a pen body mounted to move in said barrel, a nib on said body, a collapsible ink reservoir and a part for collapsing said reservoir within said body, means for shifting said body and nib thereof to writing position and to another outward position for filling said reservoir, said body having an opening registering with said barrel opening when said body is in filling position, a plug connected with said reservoir collapsing part and extending in 70 said body opening, and a manipulating member mounted in said barrel to extend through said barrel opening to act on said plug and reservoir collapsing part only when said body is in its said reservoir filling position.

6. A fountain pen comprising an outer barrel having an opening in its wall, a manipulating lever pivoted on said barrel and having a finger extending in said opening, a 85 pen body mounted to move in said barrel, a nib on said body, a collapsible ink reservoir and a part for collapsing said reservoir within said body, means for shifting said body and nib thereof to writing position and to another outward position for filling said reservoir, said body having an opening registering with said finger when said body is in said reservoir filling position, and a part 90 connected with said reservoir collapsing part for actuation by said finger.

7. A fountain pen comprising an outer barrel having an opening in its wall, a manipulating lever pivoted on said barrel and having a finger extending in said opening, 100 a pen body mounted to move in said barrel, a nib on said body, a collapsible ink reservoir and a part for collapsing said reservoir within said body, means for shifting said body and nib thereof to writing position and to another position for filling said reservoir, said body having an opening registering with said finger when said body is in said reservoir filling position, and a plug 105 extending from said collapsible reservoir collapsing part and entering said body opening to be flush with the outer surface of said body for actuation by said finger and lever.

In testimony whereof I have signed my name to this specification. 115

ISAIA LEVI. 120

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