

A. G. ELSER.  
 FOUNTAIN PEN.  
 APPLICATION FILED JUNE 26, 1916.

1,292,736.

Patented Jan. 28, 1919.

Fig. 1.

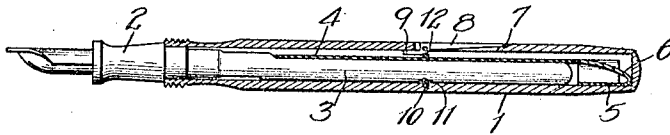


Fig. 2.

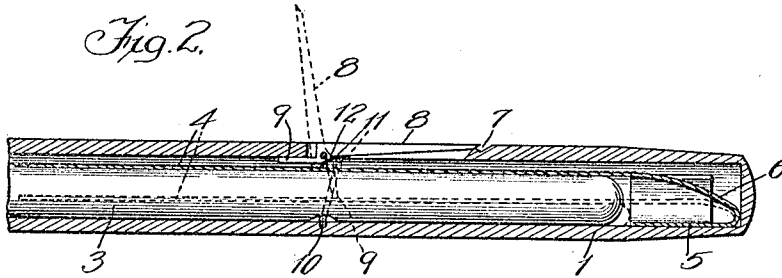


Fig. 3.

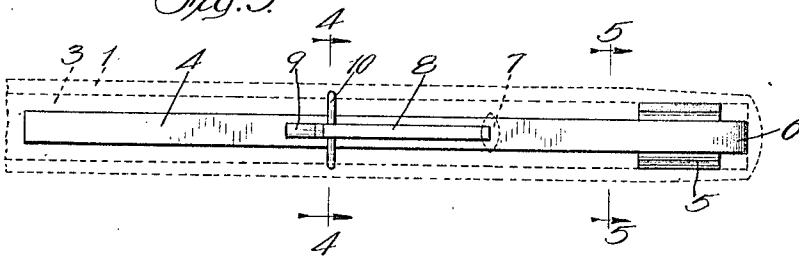


Fig. 4.

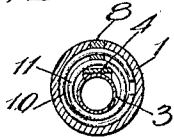
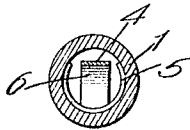


Fig. 5.



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# UNITED STATES PATENT OFFICE.

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## FOUNTAIN-PEN.

1,292,736.

Specification of Letters Patent.

Patented Jan. 28, 1919.

Application filed June 26, 1916. Serial No. 105,978.

*To all whom it may concern:*

Be it known that I, AUGUST G. ELSER, citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Fountain-Pens; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to improvements in fountain pens of the self-filling type, and more particularly to an operating lever and lever-mounting therefor for effecting, in conjunction with the pressure bar within the pen-barrel the collapse of the rubber ink-reservoir of the fountain pen.

The particular objects of the present invention are:

First: To provide a pivotal mounting for the operating lever of a self-filling fountain pen which will not weaken the hard rubber fountain pen barrel at any local point.

Second: To provide a lever for fountain pens of the character set forth which is pivotally mounted within the barrel thereof and has only one end portion thereof exposed to view from the exterior of the barrel.

Third: To provide a fountain pen barrel equipped with an operating lever lying within a longitudinal slot in the barrel in which the slot is so disposed relative to the pivotal mounting of the lever as to cause one end wall of the slot in the barrel to constitute a stop for limiting the opening movement of the lever.

Fourth: To provide a pivotal mounting for the lever of a self-filling fountain pen within the barrel of the pen which shall include as a part thereof, a means for yieldingly holding the lever normally firmly in its closed position, that is to say, so that the exposed portion thereof lies entirely within the slot in the barrel or housing of the pen.

The invention consists in the features of construction and combinations of parts hereinafter fully described and claimed.

In the accompanying drawings illustrating a suitable embodiment of the invention:

Figure —1— is a central longitudinal section of a fountain pen equipped with a lever and mounting constructed in accordance with the invention.

Fig. —2— is a similar fragmentary section on an enlarged scale showing the lever in its open position in dotted lines.

Fig. —3— is a detail top plan view of the sack-collapsing bar and the mounting therefor showing the fountain pen barrel in dotted lines.

Figs. —4— and —5— are detail transverse sections on the lines 4—4 and 5—5 respectively, of Fig. —3—.

The fountain pen comprises the barrel 1, usually made of hard rubber, or the like, adapted to receive the pen section 2 in one end. Secured to the latter is the collapsible ink reservoir 3, usually consisting of a rubber tube closed at one end, and attached at its open end to said pen section. Mounted within the barrel 1 is a sack-collapsing pressure-bar 4 of any desirable construction. This in the instance illustrated, consists of what is usually known as the "Duryea bar," comprising a split ring 5 frictionally held by its own resiliency firmly within the closed end of the barrel 1, and having a goose-neck bend 6 connecting the bar 4 with the rear end of the split ring or collar 5. It will be understood, of course, that any other form of pressure bar may be used.

The barrel 1 is provided with a longitudinal slot 7 which is adapted to receive the longer or digitally engageable end 8 of the lever for operating the pressure bar 4. The said lever is provided with a short end portion 9 disposed entirely within the barrel 1 and which is inset from the portion 8 of said lever. The latter is provided between the portions 8 and 9 with a perforation through which a split ring 10 passes, the latter lying in an annular groove in the inner circumferential face or wall of the barrel 1 contiguous, preferably, to that end of the slot 7 therein disposed nearest the open or pen-section end of the barrel. The lever is adapted to be pivotally turned on said split ring as a fulcrum for causing the inner end 9 of said lever to engage and depress the bar 4 to collapse the sack 3 in the usual and well-known manner. As previously stated, the bar 4 may be normally held in the position shown in Figs. —1— and —2—, by spring-pressure such as is exerted by the goose-neck 6 in the instance illustrated, or the same may be held in said position by the expansion of the sack 3.

Preferably the lever is held normally in

its closed position independently of the bar 4 or other sack-collapsing element within the barrel and my construction, therefore, includes means for so holding the same.

5 This consists, in the instance illustrated, of a very light spring-ring 11 which is suitably attached to the ring 10 at a point diametrically opposite the slot 7 within the barrel; said ring 11 being of smaller diameter than 10 the ring 10 and normally positioned preferably approximately concentric with the latter, and bearing upon the inclined shoulder 12 formed at the inset of the portions 8 and 9 of the lever and contiguous to the 15 pivot opening in the latter. In turning the lever to open position, as shown in Fig. —2—, the ring 11 will be moved against its own resiliency to the position shown in dotted lines in said figure, and, upon turning 20 the lever in the opposite direction, will return to its normal position, thus holding the lever firmly in its closed position independently of any pressure exerted on the inner end 9 thereof by the pressure bar or sack-

25 collapsing means within the barrel.

While I have shown the preferred em-

bodiment of the invention in the accompanying drawings it will be understood, of course, that the same may be changed and varied in detail without departing from the 30 invention as defined in the appended claim.

I claim as my invention:

In a self-filling fountain pen, a barrel having a longitudinal slot, and provided 35 with an internal annular groove between the ends of the slot, a metallic ring fitted to the said annular groove in said barrel, and a lever lying within the slot and pivotally connected between its ends with said ring, and a spring-member secured to said ring at a 40 point diametrically opposite the slot and extending approximately concentric with said ring and bearing on said lever to hold the same normally at one limit of its movement.

In testimony whereof I have signed my 45 name in presence of two subscribing witnesses.

AUGUST G. ELSER.

Witnesses:

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Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."