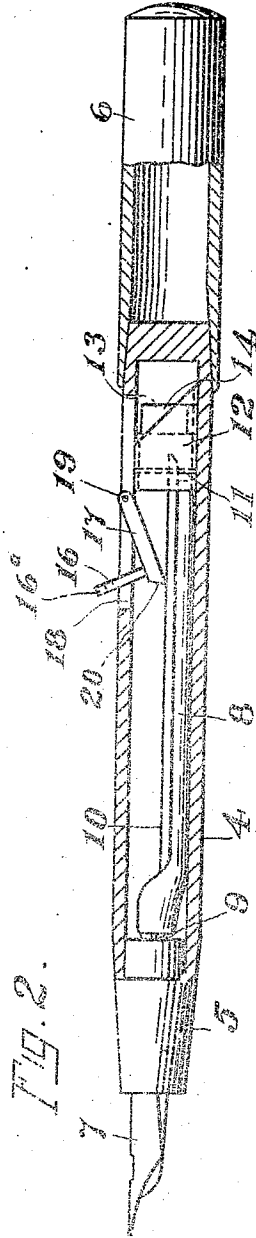
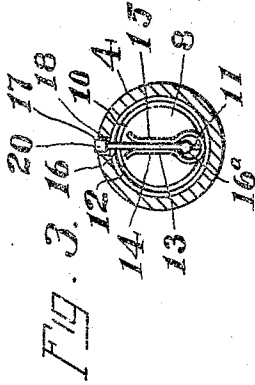
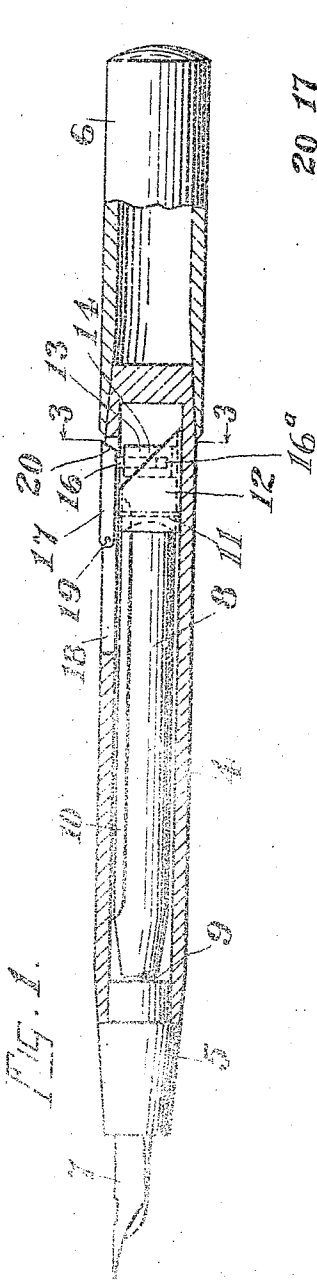


I. A. HOLLAND.
 FOUNTAIN PEN.
 APPLICATION FILED NOV. 3, 1914.

1,152,509.

Patented Sept. 7, 1915.



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FOUNTAIN-PEN.

1,152,509.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, JOHN A. HOLLAND, a citizen of the United States of America, and resident of Cincinnati, county of Hamilton, State of Ohio, have invented certain new and useful Improvements in Fountain-Pens, of which the following is a specification.

This invention relates to improvements in fountain pens and particularly to that class of fountain pens known as self filling fountain pens, in which an elastic reservoir is employed and in which means are provided for collapsing the reservoir, and to permit the reservoir to expand and draw in a charge of ink.

An object of my invention is to produce a self filling fountain pen in which improved means are employed for effecting compression of the ink reservoir.

Another object of my invention is to produce a self filling fountain pen in which improved means are employed for preventing accidental operation of the reservoir compressing means.

These and other objects are attained in the apparatus described in the following specification and illustrated in the accompanying drawings in which;

Figure 1 is a fragmental longitudinal sectional view of a pen embodying my invention, with the parts thereof in position for use in writing. Fig. 2 is a similar view, but illustrating the pen with the parts moved to the reservoir filling position. Fig. 3 is a transverse sectional view taken on line 3-3 of Fig. 1.

In ordinary fountain pens of the self filling type, it is usual that constructions have been employed in which accidental operation of the reservoir collapsing mechanism is possible, as for example when one is placing the fountain pen in position in the pocket or when removing it from the pocket. In addition to this many of the mechanisms employed in this type of fountain pen, are not only liable to accidental operation when placing the pen in the pocket or when removing it therefrom, but also when the pen is in use, since the usual mechanisms employed for causing compression of the elastic ink reservoir, usually extend above the surface of the pen barrel or are otherwise mounted on the pen barrel in such a manner that pressure of one's fingers upon the oper-

ating portions of the mechanism, would discharge ink upon the writing paper.

In order to overcome these objections, I have devised the mechanism illustrated as an embodiment of my invention, in which the usual type of pen barrel 4, with the pen holding plug 5 and the usual removable cover or cap 6 are employed. A collapsible reservoir 8, which is made of soft rubber, is secured to the projecting end 9 of the ink tube or duct leading to the pen point 7. In order to compress the reservoir previous to filling the reservoir with ink, I have provided a longitudinal compressor bar 10 which is mounted within the barrel 4 and contacts the entire length of the reservoir 8 as illustrated. This bar is mounted upon a pin 11 extending transversely of the pen barrel and is adapted to move upon this pin for the purpose of preventing displacement of the compressor bar relatively to the reservoir and other parts of the pen. In order to conveniently mount the transversely extending pin 11 within the barrel of the pen, I have provided a section of metal tubing 12 which fits snugly within the longitudinally extending bore of the barrel. This tube is provided with a diagonally cut end as illustrated, within which I mount a U-shaped spring 13, which is preferably soldered in position at the bottom of the tube, so that its upwardly extending branches 14 and 15 will be in position to receive a pin 16 mounted on a lever 17. Lever 17 is pivotally mounted in a slot 18 formed in the top of the pen barrel, by means of a pin 19. The pin 16 of lever 17, is provided with an enlarged head 16^a which is engaged by the branches 14 and 15 and retained in the inoperative position, as shown in Fig. 3. The slot 18 is made sufficiently long for the lever 17 to be swung upon its mounting pin 19, from one end of the slot to the opposite end thereof, the pin 16 being withdrawn from between the branches of the spring 13 to permit of the lever occupying its position at the opposite end of the slot as illustrated in Fig. 2. The end 20 of lever 17 is beveled so that it may be easily lifted from its inoperative position between the branches 14 and 15 of spring 13. The pin 16 performs the twofold function of securing the lever 17 against accidental displacement in its mounting slot 18, when it is occupying its

inoperative position as shown in Fig. 1, and also of affording a finger piece for collapsing the reservoir 8, as illustrated in Fig. 2.

In operation: lever 17 with its pin 16 are
 5 withdrawn from between the branches 14 and 15 of the spring 13, the lever then being swung to the opposite end of the slot 18. With the lever contacting the compressor bar 10 and the pin 16 occupying a position
 10 extending above the barrel of the pen, the pin is pressed to cause the lever 17 to bear upon the compressor bar 10, until the reservoir 8 is collapsed. With the parts in this position, the point 7 is submerged in ink.
 15 Lever 17 and pin 16 are then swung back to their inoperative positions and the compressor bar is permitted to assume its normal position as the resiliency of the soft rubber reservoir 8 causes the reservoir to
 20 expand and draw in a charge of ink. With the pen thus filled and the enlarged end 16^a of the pin 16 secured between the branches 14 and 15 of the spring 13, the pen is ready for use.

25 Having thus described my invention, what I claim is:

1. A fountain pen comprising a barrel, a collapsible reservoir located in the barrel, a tube section located in the barrel adjacent
 30 to the reservoir, a compressor bar located in

the barrel to compress the reservoir, a pin secured to the tube section to mount the compressor bar to move transversely of said barrel, a lever to operate said compressor bar and pivotally mounted on the barrel
 35 and means secured to said tube section to yieldingly secure said lever in its inoperative position.

2. A fountain pen comprising a barrel having a slot formed therein, a collapsible
 40 ink reservoir located in said barrel, a compressor bar located in said barrel and engaging said reservoir, a lever pivotally mounted in said slot and to be swung from
 45 an inoperative position at one end of said slot to an operative position engaging said compressor bar at the other end of said slot, a projection on the lever to assist in compressing said reservoir when the lever is in
 50 an operative position, and means mounted within the barrel to engage said projection to retain said lever in its inoperative position.

In testimony whereof, I have hereunto subscribed my name this 2d day of November, 1914.

JOHN A. HOLLAND.

Witnesses:

WALTER F. MURRAY,
 W. THORNTON BOGERT.