

Dec. 29, 1925.

1,567,059

S. JOSSELYN

FOUNTAIN PEN

Filed Nov. 25, 1924

Fig. 1.

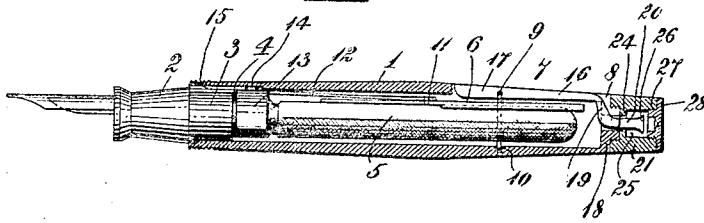


Fig. 2.

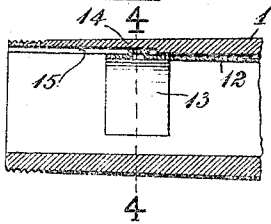


Fig. 3.

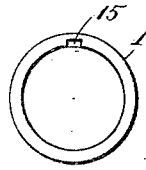


Fig. 4.

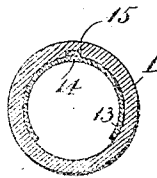


Fig. 5.

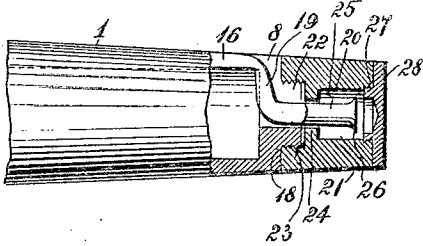
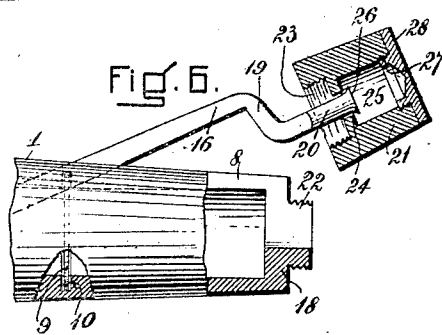


Fig. 6.



INVENTOR:
Stornout Josselyn
By *Crane & Hayes*
ATTORNEYS:

UNITED STATES PATENT OFFICE.

STORMONT JOSSELYN, OF ATLANTIC, MASSACHUSETTS, ASSIGNOR TO GEORGE ZAIN,
OF BROOKLINE, MASSACHUSETTS.

FOUNTAIN PEN.

Application filed November 25, 1924. Serial No. 752,109.

To all whom it may concern:

Be it known that I, STORMONT JOSSELYN, of Atlantic, in the county of Norfolk and State of Massachusetts, a citizen of the United States, have invented a new and useful Improvement in Fountain Pens, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming a part of this specification, in explaining its nature.

The invention relates to that type of fountain pens having a barrel and within it a collapsible ink-containing sack and, associated with this sack, mechanism for collapsing it and otherwise permitting of its expansion and consisting in part of a presser bar and a lever for actuating this bar.

Among the objects of the invention are to provide means which will ensure accurate positioning of the presser bar inside the barrel with relation to the lever when the parts are assembled; also, to provide an improved means possessing special advantages for retaining the lever and holding it in an out-of-the-way position when not in use.

The invention can best be seen and understood by reference to the drawings in which—

Figure 1 is a longitudinal cross vertical section of a fountain pen embodying the invention.

Fig. 2 is a section in enlarged detail of the inner end portion of the barrel to the pen and certain associated parts to which reference will later be made.

Fig. 3 is an elevation of the inner end of the barrel.

Fig. 4 is a cross section on the line 4—4 of Fig. 2.

Fig. 5 is an enlarged detail partly in side elevation and partly in section of the outer end portion of the barrel with associated parts, the lever, to which special reference will be made, occupying its down-turned, out-of-the-way position and the end piece of the barrels secured thereto and

Fig. 6 is the same as Fig. 5 excepting that the end piece to the barrel is shown disconnected therefrom and the lever occupying an operative position.

1 represents the barrel of the pen. 2 is the pen-carrying section having a neck portion 3 which fits, preferably slidably, within the forward end of the barrel. The neck portion 3 has an extension 4 of a slightly less

diameter and over this is fitted the end of a collapsible ink-carrying sack 5 which lies within the chamber of the barrel. 6 is a presser bar for collapsing the sack. This bar is disposed within the barrel over the sack, contacting with it, and extends in longitudinal alignment therewith. 7 is a lever lying within a longitudinal slot 8 in the barrel. It is by means of this lever as it is turned that the presser bar is actuated or moved down to compress the sack. The lever is arranged to turn on a fulcrum which comprises a ring 9 passed through the lever and lying within an annular groove 10 formed in the interior wall of the barrel.

The presser bar 6 is attached by a fastening or pin 11 at about the middle of its extension to the inner end of a spring bar 12, both bars being in alignment. The spring bar is retained within the barrel by a holder 13. This comprises an internal sleeve which fits snugly within the barrel and to which the outer ends of the spring bar is secured and this preferably by integral connection, the holder being formed by curved wings extending laterally from the bar on either side thereof. The holder is also provided with a struck-up or projecting portion 14 which fits within a groove 15 in the interior wall of the barrel. This groove extends from the inner end of the barrel and in a direction in precise alignment with the lever 7 and presser bar 6 actuated by it. The projection 14 from the holder, thus fitting in the groove 15, prevents lateral displacement or turning of the holder when once positioned within the barrel. It also insures absolute and accurate setting of the holder within the barrel so that the spring bar and presser bar attached to it will occupy a position where the lever when actuated, will have positive and accurate engagement with the presser bar for compressing the sack. In the assemblage of the parts the holder 13 carrying the spring bar with presser bar attached to it is inserted through the open inner end of the barrel and the holder can only be inserted within the barrel when the projection 14 thereon is contained within the groove 15 in the barrel, the holder being slid into place with the projection thereof sliding along the groove. When located within the barrel the holder will occupy a position where it will fit around the extension 4 of the pen-carrying section. In the assem-

blage of the parts the holder is first inserted and afterward the pen-carrying section is pressed into place, the extension 4 to the neck thereof then fitting within the holder.

5 The lever 7 fulcrumed to turn on the ring 9 for actuating the presser bar, as previously noted, comprises a work arm 16 which engages the presser bar as the lever is turned and an operating arm 17 for turning the lever. The lever occupies a down-
10 turned out-of-the-way position lying within the slot in the barrel, as previously noted, when the lever is not in use. The barrel is provided with a closed outer end wall 18 and the slot 8 within which the lever lies
15 extends not only to the outer end of the barrel but also across the end wall 18 to the centre of this wall. The operating arm of the lever has a bend or offset 19 in it by which the arm, when the lever lies recessed
20 within the slot 8, extends to the centre of the end wall 18 to the barrel and thence extends by a portion 20 beyond the end of the barrel in central alignment therewith. On
25 the portion 20 of the operating arm thus extending is arranged an end piece 21 for the barrel. This end piece has threaded connection with the barrel in extension of the barrel. For the purpose of providing such
30 connection the end wall 18 of the barrel is provided with an internally-threaded projection or boss 22 of less diameter than the end wall and centrally disposed. The inner part of the end piece 21 which faces the
35 outer end of the barrel is provided with a threaded socket 23 by which it may fit over and have threaded connection with the projection or boss 22 on the end of the barrel and thereby become attached to the barrel,
40 the end piece when tightened bearing against the end wall of the barrel when the end piece will assume a position in proper and precise alignment with the barrel in extension thereof. The end 20 of the operating lever projects through the socket 23
45 in the end piece and thence, preferably rather loosely, through a partition 24 formed within the end piece beyond the socket and which forms the bottom of the socket. Beyond the partition 24 the end piece is provided
50 with a socket 25 into which the end of the lever arm projects and where it is provided with a head 26 preferably obtained by upsetting the metal from which the lever
55 is made. The head 26 is larger diametrically than the opening through the partition 24 and the end piece is accordingly prevented from falling or being drawn from the end of the lever especially when the end piece is
60 unthreaded from the end of the barrel to permit turning of the lever as shown in Fig. 6. The head 26 on the end of the operating lever is formed after the end of the lever has been passed through the partition 24,
65 and the arrangement of the parts should be

such that the head should have sufficient freedom of movement within the socket 25 to permit of the unscrewing of the end piece from the end of the barrel or its attachment made thereto. The open outer end of the
70 socket 25 in the end piece is closed by a threaded plug 27 which forms part of a tip end or plate 28 which draws against and finishes the outer end of the end piece when
75 the plug 27 is turned into place.

Having thus fully described my invention, I claim and desire to secure by Letters Patent of the United States:—

1. A fountain pen comprising a barrel having an interior groove in the wall thereof
80 extending from its inner end an appreciable distance, a pen-carrying section secured to the barrel, a collapsible sack within the chamber of the barrel, a presser bar for said sack, a lever, means for mounting the lever
85 to have operative engagement with the presser bar when the lever is actuated for compressing the sack, a spring bar fixed to the presser bar, a holder for the spring bar inside the barrel and arranged to occupy a
90 determinate position therein when the lever and presser bar are occupying proper operative relation to one another, and a projection from the holder contained within said groove in the barrel when the holder is occupying its determinate position as aforesaid.

2. In a fountain pen, the combination comprising a barrel, a pen-carrying section, a collapsible sack inside the barrel, a presser
100 bar disposed within the barrel and arranged to collapse said sack when actuated, means for mounting the presser bar, a lever pivotally arranged whereby it will actuate the presser bar to collapse the sack when the
105 lever is turned, said lever having an operating arm extending beyond the outer end of the barrel when the lever is occupying a disengaging position with relation to the presser bar and which operating arm is displaceable laterally from the barrel as the
110 lever is turned, an end piece to the barrel arranged upon the operating arm, said end piece having in it a partition through which the arm extends and a socket beyond the partition in which the end of the arm is contained, the end of said operating arm contained within the socket as aforesaid being provided with a head, and means for releasably securing the end piece to the outer
115 end of the barrel when the lever is occupying its disengaged position as aforesaid.

3. In a fountain pen, the combination comprising a barrel, a pen-carrying section, a collapsible sack inside the barrel, a presser
125 bar disposed within the barrel and arranged to collapse said sack when actuated, means for mounting the presser bar, a lever pivotally arranged whereby it will actuate the presser bar to collapse the sack when the
130

lever is turned, said lever having an operating arm extending beyond the outer end of the barrel when the lever is occupying a disengaging position with relation to the presser bar and which operating arm is displaceable laterally from the barrel as the lever is turned, an end piece to the barrel arranged upon the operating arm, said end piece having in it a partition through which the arm extends and a socket beyond the partition in which the end of the arm is contained, the end of said operating arm contained within the socket as aforesaid being provided with a head, a tip releasably secured to the outer end of the end piece closing the socket in it within which the head of the operating arm is contained, and means for releasably securing the end piece to the outer end of the barrel when the lever is occupying its disengaged position as aforesaid.

STORMONT JOSSELYN.