

J. L. SCHNELL.
 SELF FILLER FOUNTAIN PEN.
 APPLICATION FILED APR. 28, 1914.

1,144,436.

Patented June 29, 1915.

Fig 1

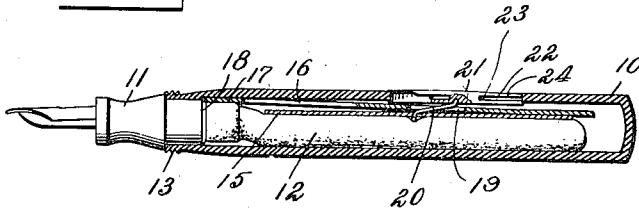


Fig 2

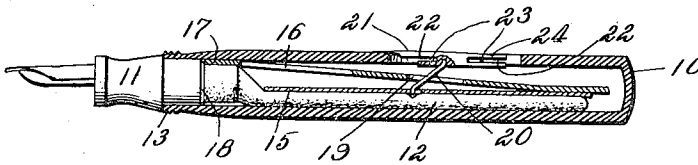


Fig 3

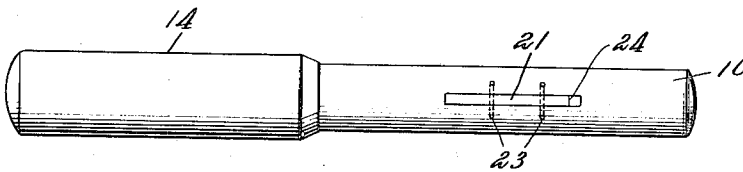
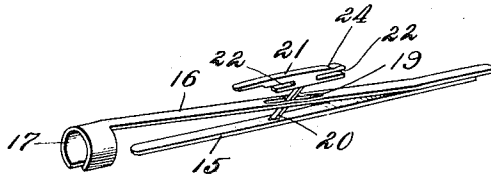


Fig 4



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JULIUS L. SCHNELL, OF ARLINGTON, NEW JERSEY.

SELF-FILLER FOUNTAIN-PEN.

1,144,436.

Specification of Letters Patent. Patented June 29, 1915.

Application filed April 28, 1914. Serial No. 834,968.

To all whom it may concern:

Be it known that I, JULIUS L. SCHNELL, a citizen of the United States, residing at Arlington, in the county of Hudson and State of New Jersey, have invented new and useful Improvements in Self-Filler Fountain-Pens, of which the following is a specification.

This invention relates to fountain pens, particularly of the self-filler type, and has for an object to provide a device of this nature which is of simplified construction, which may be operated by the slight movement of a thumb or a finger of the hand which holds the pen, and a device wherein but a slight movement of the operating member is sufficient for effecting a complete filling of the pen.

The above and other objects and advantages of the invention will be more clearly brought out in the following detail description of one embodiment of the invention, the same being illustrated in the accompanying drawings wherein,—

Figure 1 is a longitudinal section through the self-filler fountain pen, the collapsible ink tube and pen section being shown in elevation, the parts disclosing the pen in normal position. Fig. 2 is a similar view disclosing the operating parts in position for filling the pen. Fig. 3 is a top plan view of the complete fountain pen. Fig. 4 is a detail perspective view of the operating parts assembled.

Referring to this drawing 10 designates the barrel of a fountain pen which may be of any approved form or construction, and which is provided with a pen section 11 suitably fitted in the barrel and which has secured to its inner end a collapsible tube or reservoir 12 made of rubber or like material for the reception of the ink.

As disclosed in the present drawing the barrel 10 is provided with a threaded lower end section 13 upon which is secured a cap 14 for protecting the pen section 11 and its parts.

The self-filler device comprises a presser bar 15 mounted upon a holder 16, the latter comprising a preferably spring strip secured to the presser bar 15 at the upper end of the barrel 10 and having at its lower end a clip or split ring 17 adapted for engagement about the inner end of the pen section 11 and also for engagement against the usual shoulder 18 formed upon the pen section. The strip of the holder 16 normally lies against the

side of the barrel 10 and holds the presser bar 15 lightly against the side of the collapsible reservoir 12. Intermediate the ends of the strip of the holder 16 a slot 19 is formed therein adapted to receive a thrust link 20, the inner end of which is hingedly connected to the intermediate portion of the presser bar 15, while the outer end of the link 20 extends up through the slot 19 and is hingedly connected to a slide 21 carried in the wall of the barrel 10. The slide 21 is seated in a recess in the wall of the barrel 10 and is provided with undercut slots 22 through which project stop pins 23, which pass transversely through the barrel and through the slots 22, the pins being adapted not only to limit the movement of the member 21 longitudinally of the barrel, but also to retain the slide 21 in position. The inner edge of the slide is hingedly connected to the link 20 while the outer edge thereof is slightly rounded and slopes inwardly at its upper end so as to lie flush with the outer wall of the barrel 10. The upper end of the slide 21 is provided with a transverse notch 24 for the reception of the thumb or finger tip of the operator in order that the hand which holds the barrel 10 may also operate the self-filler device and thus provide a filler capable of operation with one hand.

In operation it is only necessary to grasp the barrel in the hand and engage the thumb nail in the notch 24, and to then push the thumb forward toward the pen section 11. This operation pushes the link 20 forwardly, and as the presser bar 15 is held from longitudinal movement by the holder 16 and the clip 17 by engaging the shoulder 18 of the pen section, the link 20 must swing down and force the presser bar inwardly against the collapsible tube 12 and thus expel the air from the same. The pen section 11 is now dipped into a quantity of ink and the thumb released whereupon the collapsible tube 12 expands and forces the presser bar 15 out against the wall of the barrel 10 drawing in the desired quantity of ink to fill the pen. The return of the presser bar to its normal position forces the link 20 outwardly against the slide 21 and thereby moves the latter to its normal raised position as shown in Fig. 1.

It is thus seen that the pen is provided with a self-filling device operable upon a very slight movement of a member which is countersunk in the wall of the barrel, and

which requires but one hand to operate the same.

It will also be noted that as the slide is seated in the wall of the barrel frictional contact between the pen and the pocket in removing and replacing the pen cannot accidentally operate the device to expel the ink from the reservoir.

What is claimed is,—

- 10 1. A self-filler fountain pen comprising a barrel, a pen section carried by the barrel, a collapsible tube in the barrel connected to said pen section, a spring holder in said barrel, a presser bar carried by the holder and lying against the side of said tube, a slide countersunk in one side of the barrel intermediate the ends thereof and a thrust link hinged at its opposite ends to said slide and said presser bar respectively.
- 20 2. A self-filler fountain pen comprising a barrel, a collapsible tube in the barrel, a presser bar, a spring holder to maintain said presser bar against the side of said barrel, a slide countersunk in the side of said barrel intermediate the ends thereof and movable longitudinally of the barrel, a connecting link pivotally connected at its opposite ends to said slide and presser bar respectively whereby upon the longitudinal movement of said slide the presser bar is forced downwardly against the tube to collapse the same.
- 30 3. In a fountain pen, a barrel having an

elongated recess in one side thereof intermediate its ends, a collapsible tube in said barrel, a presser bar bearing against one side of said barrel, a slide movable longitudinally in said recess and comprising a member having its ends bifurcated, means extending across said recess and engaging in said bifurcated ends to retain the slide in position in the recess, and a connecting link between the presser bar and the slide to force the bar against the tube and collapse the same as the slide is moved.

4. In a fountain pen, a barrel having a recess in one side thereof intermediate its ends, a collapsible tube in said barrel, a presser bar bearing against one side of the tube, operating means in the plane of the barrel wall comprising a slide movable in said recess in the plane of said wall and having undercut slots at either end thereof, pins passing transversely through the barrel and through said slots to retain the slide in position, and a connection between said slide and the presser bar to force the presser bar against the tube and collapse the same as the slide is moved.

In testimony whereof I have hereunto set my hand in the presence of two subscribing witnesses.

JULIUS L. SCHNELL.

Witnesses:

IDA NORMAN,
JOHN V. LADDEY.