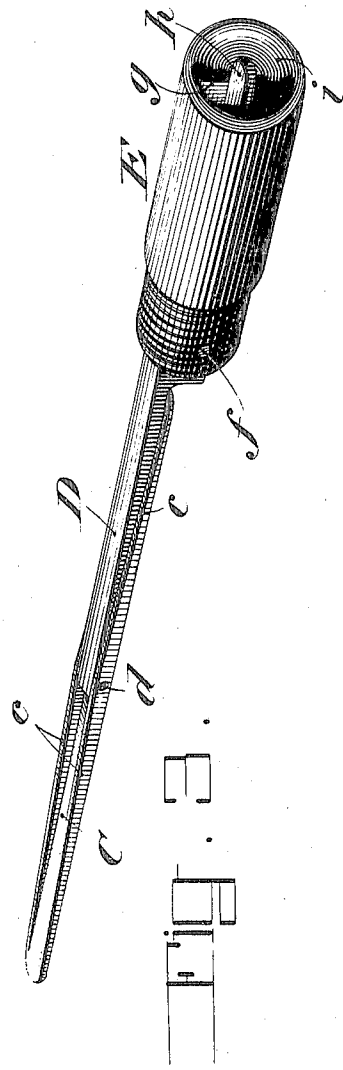
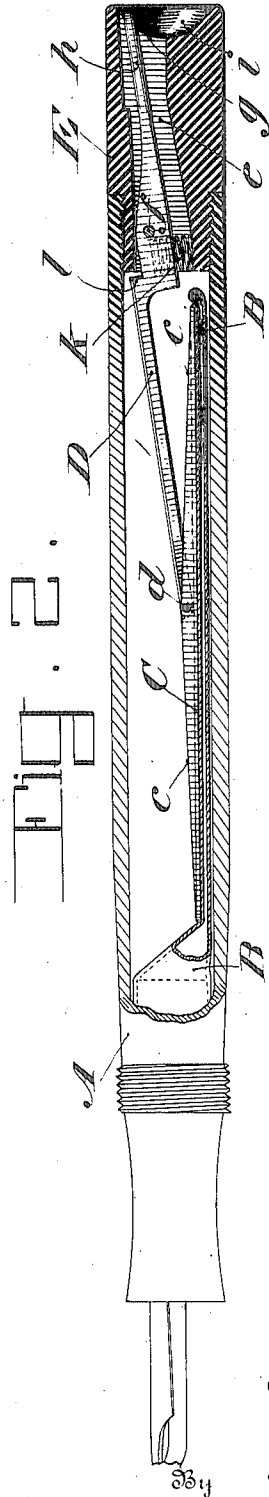
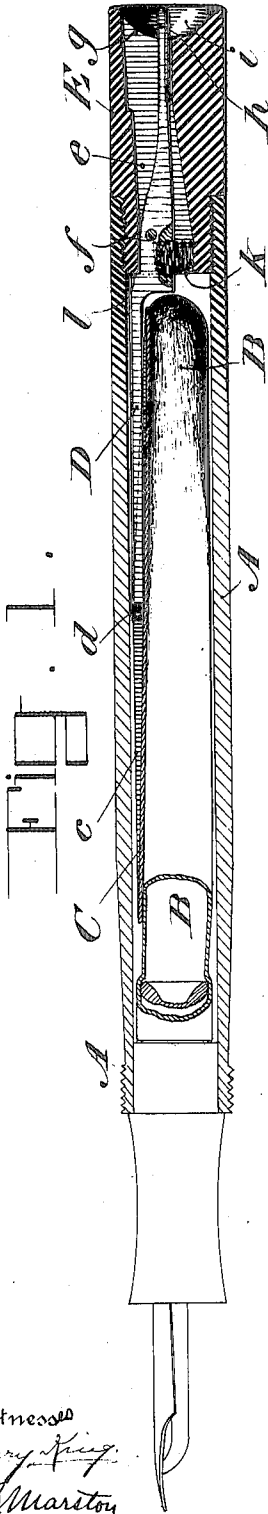


O. B. ANDERSSON.
 FOUNTAIN PEN.
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1,213,725.

Patented Jan. 23, 1917.



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FOUNTAIN-PEN.

1,213,725.

Specification of Letters Patent.

Patented Jan. 23, 1917.

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To all whom it may concern:

Be it known that I, OSCAR B. ANDERSSON, residing in Elizabeth, in the county of Union and State of New Jersey, have invented a certain new and useful Improvement in Fountain-Pens, of which the following is a specification.

My invention relates to self-filling fountain pens, and consists of a novel construction and arrangement of the operating means for compressing the collapsible ink bag, designed to produce a device simple and effective in action and which, as a whole, can be readily fitted to and removed from the pen handle.

The improvement will first be described in connection with the accompanying drawings forming part of this specification and will then be more particularly pointed out in the claims.

Figure 1 is a longitudinal axial section, partly in elevation, of a fountain pen embodying my improvement in its preferred form showing the parts of the self-filling movement in normal position. Fig. 2 is a similar section partly in elevation of the same with the parts in the position they assume when the presser bar is forced inwardly to compress the ink bag. Fig. 3 is a perspective view of the self-filling movement detached.

A is the tubular pen handle with the usual nozzle which holds the feed bar and pen. B is the collapsible, resilient, vulcanized, soft rubber ink bag within the handle, having its mouth fitted upon the rear end of nozzle. These parts are of any ordinary or suitable construction.

C is the presser bar extending lengthwise of the ink bag between it and the handle as customary. It is pivoted at about its middle to the front end of a lever D which is fitted between upturned ears or flanges *c* on the side edges of the presser bar, and is jointed to said bar by a pivot pin *d* which passes through the ears or flanges *c* and the end of the lever D which is between them, as shown more clearly in Fig. 3.

Lever D is a lever of the first order, pivoted between its two ends in a recess *e* in a plug E on a pivot pin *f* extending crosswise of the recess, the recess opening out through the rear end of the plug in the form of a cross-slot *g* to permit the necessary vibratory play of the rear or handle end *h*

of the lever which protrudes through it. The rear end of the plug is dished or recessed around the slot *g* as shown at *i*, and the handle end *h* of the lever protrudes through the slot only far enough to allow it to be reached by the finger, or rather the finger nail. It does not protrude rearwardly beyond the recess *i*, so that there is no danger of its catching in the clothing or of being accidentally pressed in a direction to squeeze the ink bag.

The plug E is removably fitted to the end of the pen handle, for which purpose its front end is screw threaded as shown to screw into the correspondingly internally screw threaded rear end of the pen handle.

The lever D is normally pressed in a direction to lift its presser bar end away from the ink bag by any suitable spring device, in this instance a spiral spring *k* located in the recess *e* between the bottom of the recess and the adjoining face of the central hub-like portion of the lever D, against which it bears at a point in advance of the pivot *f*. A shoulder *l*, on the lever, which brings up against the face of the inner end of the plug, limits the range of movement of the front end of the lever.

It will be noted that the device as a whole is very simple, consisting only of the lever, the presser bar pivoted to or otherwise carried by the lever, and the plug in which the lever is mounted and through the slotted rear end of which the handle end of the lever projects, and that the device consisting of the three thus-assembled parts can as a whole be readily applied to and removed from the pen handle—leaving the handle free from external or internal obstruction of any kind.

The plug, which forms the rear end of the handle in the finished pen, can if desired be permanently secured to the handle in that position, but for the reasons hereinbefore indicated I prefer to make it detachable. So too, the presser bar may be attached to the operating lever in various ways which will permit it to retain its parallelism with the ink bag during the vibratory movement of the lever, although I prefer the pivoted connection between the two as illustrated for this purpose.

Having described my improvement and the best way now known to me of carrying the same into practical effect, I state in conclu-

sion that I do not limit myself to the structural details hereinbefore described and shown in illustration of my invention, since manifestly the same can be varied in a number of particulars without departure from the spirit of the invention; but

What I claim and desire to secure by Letters Patent is as follows:

1. In a self-filling fountain pen, the combination with a tubular handle, having a dished rear end, a nozzle, a collapsible ink bag and a presser bar interposed between the ink bag and handle, of an operating lever extending within and lengthwise of the handle, pivoted between its two ends in the rear portion of the handle, connected at its front end to the presser bar and at its rear end protruding through a cross-slot in the dished rear end of the pen handle to provide an operating handle for the self-filling movement, and a spring which presses the lever in a direction to lift its front arm

which carries the presser bar away from the ink bag, substantially as and for the purposes hereinbefore set forth. 25

2. In a self-filling fountain pen, a presser movement, comprising a plug adapted to be detachably secured to the rear end of the pen barrel and formed with a dished rear end, a lever pivoted between its ends in a recess in the plug, a presser bar pivoted to the front end of said lever, the rear end of said lever protruding through a cross-slot in the dished rear end of the plug in position to serve as an operating handle, and a spring mounted and housed in the recess in the plug to press the lever in a direction to move its presser-bar-carrying end away from the ink bag, substantially as and for the purposes hereinbefore set forth. 30 35 40

In testimony whereof I affix my signature.

OSCAR B. ANDERSSON.