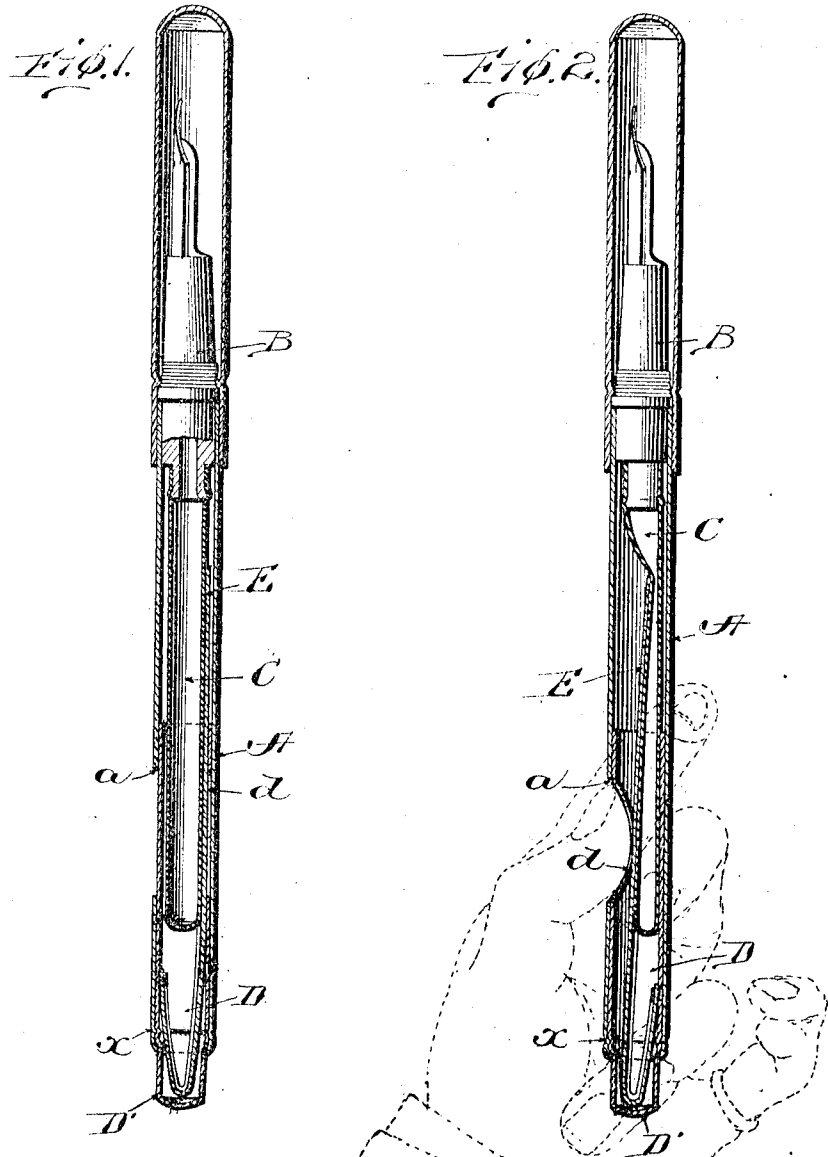


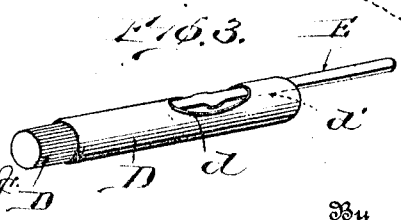
C. W. BOMAN.
FOUNTAIN PEN.
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1,051,670.

Patented Jan. 28, 1913.



Witnesses
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UNITED STATES PATENT OFFICE.

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FOUNTAIN-PEN.

1,051,670.

Specification of Letters Patent.

Patented Jan. 28, 1913.

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To all whom it may concern:

Be it known that I, CLAES W. BOMAN, a citizen of the United States, and a resident of Brooklyn, in the State of New York, have invented a new and useful Improvement in Fountain-Pens, of which the following is a specification.

My invention relates to what are styled self-filling fountain pens, and more particularly to that kind of such pens in which an inwardly movable presser, extending lengthwise of the collapsible ink bag, and interposed between it and the tubular handle in which the ink bag is housed, can be reached and operated by hand through an opening in the side of the handle.

The invention consists in attaching the presser for this purpose to a tubular cylindrical carrier which snugly fits and is rotatable within the handle, and is provided with a lateral opening through which the presser is exposed, and with a head which protrudes through and beyond the rear end of the handle and serves as a means by which the carrier can be rotated either to bring the opening in it into register with the opening in the side of the handle when it is desired to make use of the presser, or to bring the imperforate portion of the carrier opposite to, and in a position to close, the opening in the side of the handle when the presser is not in use.

In the accompanying drawings, to which I shall now refer for a better understanding of the invention—Figure 1 is a longitudinal axial section, partly in elevation, of a fountain pen embodying the invention, with the parts in the position they occupy when the rubber ink bag is uncompressed and the lateral opening in the handle is closed. Fig. 2 is a view similar to Fig. 1, representing the parts in the position they occupy when the side openings in the handle and rotatable presser-carrier are in register and the rubber ink bag is compressed. Fig. 3 is a view of the presser and its carrier detached.

A is the tubular handle open at both ends, with the usual nozzle B, which holds the feed bar and pen, fitted into its front end. Within the handle is the collapsible ink bag C, made of vulcanized soft rubber, having its mouth fitted tightly upon the rear end of nozzle B. Thus far there is nothing new in the pen.

Fitting snugly within the handle A is the

carrier tube D, united with the handle by an annular tongue and groove joint *x*, or other suitable joint, which will permit the tube to rotate independently of the handle. The head D' of the tube is closed and protrudes through and beyond the rear end of the handle, in a position where it can be conveniently manipulated to rotate the carrier tube—which latter fits the handle so closely that it will be held by friction in any position to which it may be turned. Within the carrier tube is suitably secured the presser E, preferably made of spring sheet metal. It is in the shape of a long, slim, thin finger which is secured at its rear to the carrier, and thence extends forward through and beyond the front end thereof, lengthwise of the ink bag, and between it and the interior wall of the handle, in such position that when pressed inwardly it will flatten and compress the ink bag. The carrier tube encircles the ink bag for a portion of its length as shown. In the side of the handle is formed an opening *a*, and in the side of the carrier is formed a corresponding opening *d* in a position to expose a portion of the length of the presser within.

By rotating the carrier so as to bring its opening *d* into register with the opening *a* in the handle, the presser can be reached by the hand and pressed inwardly so as to compress the ink bag as indicated in Fig. 2. The moment pressure is released, the presser will move outwardly away from the ink bag. When the presser is not in use, the carrier can be rotated so as to throw the openings *a*, *d* out of register, thus closing the opening in the handle as seen in Fig. 1.

The cap D', in this instance made integral with the carrier, can be formed in any other suitable way. The presser E, which may also be secured to the carrier in any convenient way, in this instance, and with a view to enhancing its resilient action, has its rear portion bent on itself in U shape, the short leg of the U being attached to the carrier as indicated in Figs. 1 and 2. The opening *d* in the carrier may be bounded on all sides by the tubular body of the carrier, or the solid portion of the carrier in advance of it can be removed, as indicated by dotted lines at *d'*, Fig. 3, all that is needed being that there shall be such an opening in the carrier tube as shall properly expose the presser.

The manner of using the attachment for filling purposes is obvious, and requires no explanation.

The device is efficient, simple, inexpensive to make, and easily and readily applied to existing types of fountain pens.

Having described my invention, and the best way now known to me of carrying the same into practical effect, I state in conclusion that I do not restrict myself narrowly to the structural details hereinbefore shown and set forth, since manifestly the same can be varied in some respects without departure from the invention: But

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

A self-filling fountain pen comprising in combination a tubular handle formed with a side opening; a nozzle in the front end of the handle and a collapsible ink bag within the handle attached to the nozzle; a carrier tube fitting within said handle and swiv-

eled therein to rotate axially independently of the handle, having a lateral opening, and a head which extends beyond the rear end of the handle in position to be manipulated to rotate the carrier; a presser secured at its rear to the carrier and extending therein in the line of the side opening in the carrier toward the front end of the handle, between the ink bag and the inner wall of the handle; the carrier being rotatable either to bring the side openings in it and in the handle into register so as to expose the presser, or to bring the imperforate portion of the carrier opposite to, and in a position to close, the side opening in the handle, substantially as and for the purposes hereinbefore set forth.

In testimony whereof I affix my signature in presence of two witnesses.

CLAES WM. BOMAN.

Witnesses:

EDWIN M. BEROLZHEIMER,
CHAS. LINK.