

No. 733,827.

PATENTED JULY 14, 1903.

C. A. FABER.
SELF FILLING FOUNTAIN PEN.
APPLICATION FILED NOV. 22, 1902.

NO MODEL.

Fig. 1.

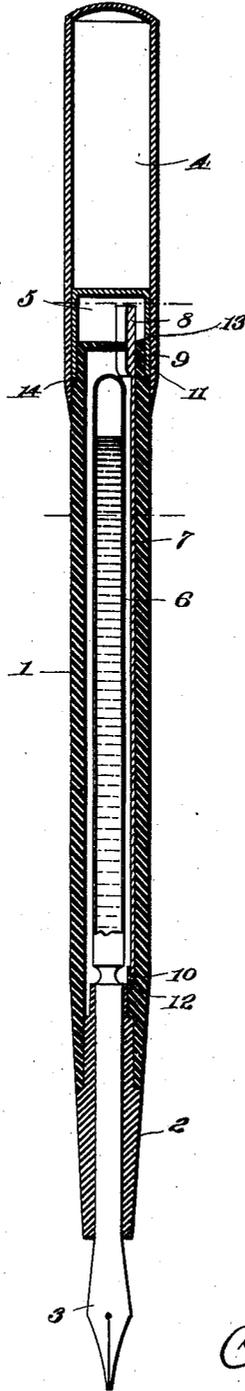


Fig. 4.



Fig. 2.

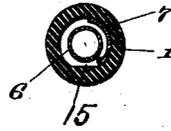
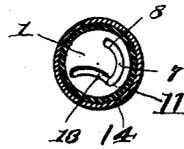


Fig. 3.



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UNITED STATES PATENT OFFICE.

CHARLES A. FABER, OF TOLEDO, OHIO.

SELF-FILLING FOUNTAIN-PEN.

SPECIFICATION forming part of Letters Patent No. 733,827, dated July 14, 1903.

Application filed November 22, 1902. Serial No. 132,445. (No model.)

To all whom it may concern:

Be it known that I, CHARLES A. FABER, a citizen of the United States of America, residing at Toledo, in the county of Lucas and State of Ohio, have invented certain new and useful Improvements in Self-Filling Fountain-Pens, of which the following is such a full, clear, and exact description as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, forming a part hereof.

My invention relates to improvements in self-filling fountain-pens; and its object is to provide improved means for filling the pen without opening it and for so covering the filling device when not in use as to keep it out of sight, out of the way, and out of danger from accidental operation.

It consists in the combination, with a hollow cylindrical case or holder, of a tube of soft rubber or other elastic material and a compressor-lever within the holder extending parallel with the tube, which lever is pivoted in the holder at both ends thereof and is operated by a handle protruding from the upper end of the holder, which handle when not in use is covered by a tight-fitting cap forming a short extension of the holder.

I am aware that in fountain-pens the use of an elastic ink-reservoir with means for so compressing it and releasing it as to draw the ink up into the partial vacuum thus made is not new, and my invention relates only to certain improved details of construction hereinafter described and claimed.

In the accompanying drawings, Figure 1 is a longitudinal section of a fountain-pen embodying my improvements. Fig. 2 is a cross-section of the same. Fig. 3 is a top view of the penholder with the cap or short extension removed, and Fig. 4 is a side elevation of the compressor-lever.

Similar reference-numerals refer to similar parts throughout the several views.

The holder 1 is a hollow cylinder of hard rubber or other suitable material closed at one end except for the bearing 11 and slot 13, made to receive the lever, and open at the other end. The pen-socket 2, adapted to fit into the open end of the holder, is of the or-

dinary type, having in its outer end the pen 3 and on its inner end the ink-reservoir 6, with the ordinary channel and feed for the flow of ink between the reservoir and the pen. Said reservoir 6 consists of an elastic tube, preferably of soft rubber, closed at its upper end and fastened securely at its lower end upon the pen-socket 2. The lever 7 is a thin piece of metal, rectangular and having on one edge pivots 9 and 10, one at either end thereof, adapted to turn in the bearings 11 and 12 in the penholder. Said lever is preferably made slightly concave to obtain a better hold upon the ink-reservoir, and the holder is made, preferably, with the side opposite the lever of greater thickness than the other like portions of the holder, as shown at 15 in Fig. 2, so as to form in conjunction with the lever 7 a V-shaped receptacle with slightly concave sides, within which the ink-reservoir rests.

The lever 7 is operated by a handle 8, protruding from the top end of the penholder. Around the upper end of the holder is a shoulder 14, onto which is fitted a cap 5, adapted to cover and protect the handle of the lever and making a short extension of the penholder. Said cap 5 is preferably of a little less diameter than the body of the holder 1, so that the cap 4, which is ordinarily used to protect the pen when not in use and as an extension of the holder when in use, will not bind upon said cap 5.

The lever 7 is inserted into the penholder through the slot 13 and is then turned to the position shown in Figs. 2 and 3 before the ink-reservoir and pen-socket are inserted at the open end of the holder. As will be readily seen, the lever with the reservoir in place will not turn sufficiently to come out of its bearings or be withdrawn from the holder.

The construction and arrangement of the parts being thus made known, it is thought that the method of filling the pen will be readily understood.

After the caps 4 and 5 are removed the pen is inserted in a body of ink, and by turning the lever upon the ink-reservoir the latter is compressed and the air or liquid in it is expelled. Then by releasing the pressure of the lever upon the reservoir the latter expands of

its own elasticity to its original size and shape, and the ink flows up to fill the partial vacuum thus created.

Should the pen become clogged with dry ink, dust, or any other foreign substance, it is easily cleansed by inserting it into water or ink and pumping the liquid several times through the channel connecting the pen with the reservoir. When the pen is filled, replace the cap 5, which can be held in place either by screw-threads or by friction, as may be found most practicable, and the pen presents the appearance of any ordinary fountain-pen, with the self-filling mechanism entirely concealed from view and out of the way.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. In a self-filling fountain-pen the combination with an elastic ink-reservoir of a compressor-lever, pivoted in the penholder at both ends, a handle on said lever projecting from the upper end of the penholder and a

removable extension of the penholder adapted to cover and protect the handle of the lever, all substantially as described. 25

2. The combination of a pen-socket, an elastic reservoir attached thereto, with a passage leading from the reservoir to the pen, a hollow penholder adapted to contain the reservoir, a lever extending longitudinally between the penholder and the reservoir and pivoted at each end thereof, a handle on said lever protruding from the upper end of the penholder, a slot in the end of the holder through which the lever is inserted, and a removable cap or extension of the holder adapted to cover and protect the handle of the lever, all substantially as described. 30 35 40

In testimony whereof I have signed this specification in the presence of two subscribing witnesses.

CHARLES A. FABER.

Witnesses:

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