No. 685,918. Patented Nov. 5, 1901.

F. H. GREEN.

FOUNTAIN PEN.

(Application filed Mar. 8, 1901.)

(No Model.)

Fig. 1.

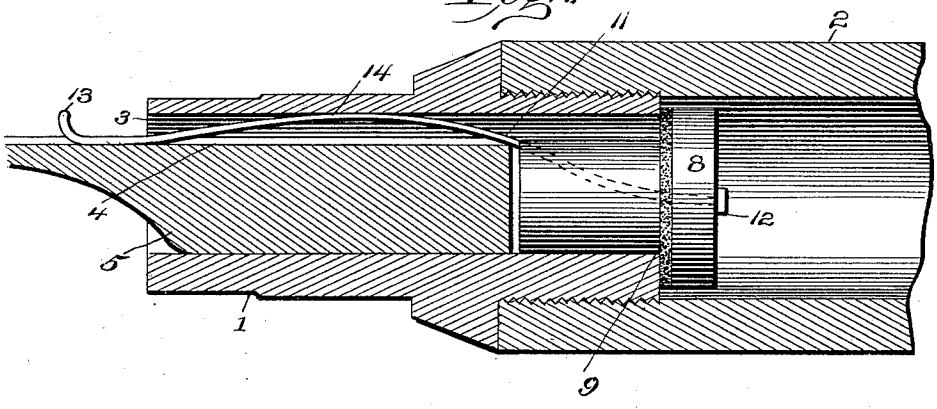
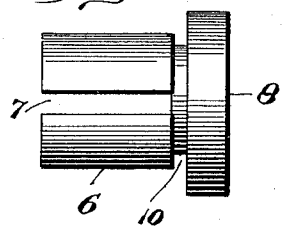


Fig. 2.



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UNITED STATES PATENT OFFICE.

FRED H. GREEN, OF JANESVILLE, WISCONSIN.

FOUNTAIN-PEN.

SPECIFICATION forming part of Letters Patent No. 685,918, dated November 5, 1901.

Application filed March 8, 1901. Serial No. 50,381. (No model.)

To all whom it may concern:

Be it known that I, FRED H. GREEN, a citizen of the United States, residing at Janesville, in the county of Rock and State of Wisconsin, have invented certain new and useful Improvements in Fountain-Pens; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to improvements in fountain-pens, and particularly to means whereby the leakage from the reservoir when the pen is carried in the pocket may be prevented.

The means used consists of a valve within the reservoir-handle operated by a finger outside of the pen-section through the agency of a connecting-wire. The wire passes through a groove cut within the pen-section immediately adjacent and parallel to the ink-passage, which is normally in the pen-feed. The wire is made of spring metal and is so bent or curved as to engage with the side of the pen-section and within the bottom of the groove therein. The wire engages with sufficient pressure to prevent the parts becoming accidentally moved.

The valve consists of a slotted stem, an enlarged head, and a washer retained in position by means of a groove in the stem.

In order to better understand the nature of the invention, attention is called to the accompanying drawings, in which—

Figure 1 is a side sectional view of the pen end of the device with the valve and operating-wire in full lines, and Fig. 2 is a top view of the valve with the washer removed.

In both views like parts are designated by the same numerals of reference.

The pen-section 1, which screws into the reservoir-handle 2, is provided with a groove 3, adjacent to and parallel with the ink-passage 4 within the feed-section 5.

The valve consists of the solid stem 6, with a slot 7 therein extending entirely through the stem and the enlarged head 8. The groove 7 in the valve-stem serves a twofold purpose—first, to allow the wire to be centered in the valve-head and yet be elastically retained in the stem of the valve, and, second, to serve as a passage or passages for the ink to flow past the valve. A washer 9 engages with the inner face of the head and is retained within a groove 10, formed upon the stem. The wire 11 passes through the stem 6 and through an opening in the head 8 and is riveted or otherwise secured thereto at 12. The wire is provided with a finger 13, preferably integral therewith. This finger-piece is located outside of the pen-section 1 and above the pen.

The wire 11 is bent or curved upward at 14, as shown, and engages within the bottom of the groove 3 with a sufficient degree of pressure to prevent the parts becoming accidentally moved.

As shown in Fig. 1, the parts are in the position they will assume while the pen is in the pocket.

To use the pen, the finger 13 is moved toward the pen-section 1, which action will disengage the washer 9 from the inner edge of the pen-section. The ink can then freely travel from the reservoir to the pen through the slot 7 and groove 3 and passage 4.

I desire it to be understood that I can modify the proportions of the component parts and their relative arrangement without departing from the spirit of my invention. For instance, the curve or bending of the wire can be reversed and will then engage with the passage 4 in the feed-section 5.

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

1. In a fountain-pen, a valve therefor within the reservoir, said valve having a cylindrical slotted body and an enlarged head, a finger outside the pen-section, and a connecting elastic wire passing through the slot, curved to engage with the pen-section to hold the valve open or closed, substantially as set forth.

2. In a fountain-pen, a valve therefor within the reservoir, said valve having a cylindrical slotted body and an enlarged head, a grooved pen-section, a finger outside the pen-section, and a connecting elastic wire passing through the slot, curved to engage within the groove to hold the valve open or closed, substantially as set forth.

This specification signed and witnessed this 28th day of February, 1901.

FRED H. GREEN.

Witnesses:
MARK E. SMITH,
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