

W. A. WELTY.
FOUNTAIN PEN.
APPLICATION FILED MAR. 16, 1916.

Patented Jan. 16, 1917.

1,212,297.

Fig. 1.

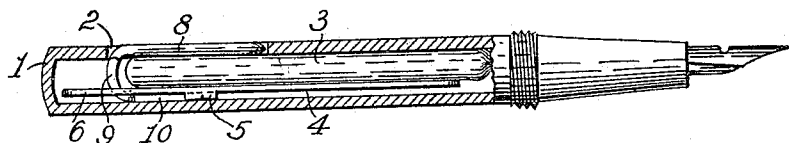


Fig. 2.

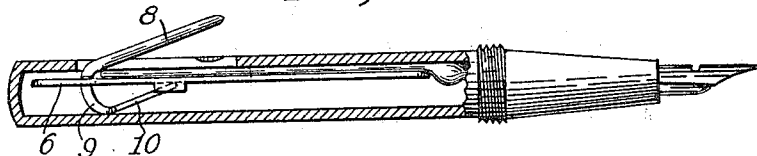


Fig. 3.

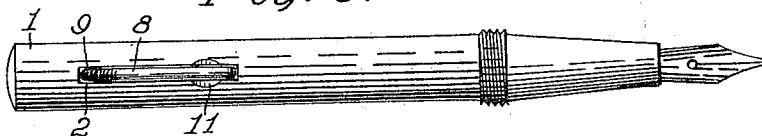


Fig. 4.

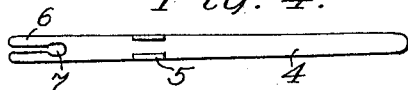
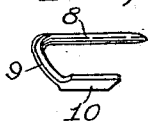


Fig. 5.



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UNITED STATES PATENT OFFICE.

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FOUNTAIN-PEN.

1,212,297.

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To all whom it may concern:

Be it known that I, WILLIAM A. WELTY, a citizen of the United States of America, and a resident of Waterloo, Blackhawk county, Iowa, have invented certain new and useful Improvements in Fountain-Pens, of which the following is a specification.

My invention relates to improvements in fountain pens, and the object of my improvement is to supply simple and inexpensive means for compressing the collapsible ink-reservoir of a self-filling fountain-pen, returnable by means of the elasticity of the reservoir when released. This object I have accomplished by the means which are hereinafter described and claimed, and which are illustrated in the accompanying drawings, in which:

Figure 1 is an elevation of my improvement in fountain-pens, in partial longitudinal central section. Fig. 2 is a like view, showing the means for compressing the elastic ink-reservoir, in operation. Fig. 3 is an elevation of said fountain-pen, taken at an angle of ninety degrees from the said figures. Fig. 4 is a detail view of the pressure-bar, and Fig. 5, is a perspective detail view of the hook-shaped actuating lever for the pressure-bar.

Similar numerals of reference denote corresponding parts throughout the several views.

The hollow barrel 1 of the fountain-pen shown contains the usual elastic compressible ink-reservoir 3, underlaid by a longitudinally-arranged pressure-bar 4, the latter bifurcated at one end at 6, and having on the middle of its under face the pair of integral spaced lugs or ribs 5.

The barrel 1 has a longitudinal slot 2 extending over the rear part of the ink-reservoir 3, and adapted to receive therethrough a hook-shaped actuating lever composed of a straight bar 8 bent downwardly in a flattened part 9 and then bent forwardly parallel with the part 8 in a flattened member 10, the latter flattened horizontally to broaden it. The medial vertically flattened part 9 is seated in a widened inner opening 7 between the bifurcations 6 of the pressure-bar 4, the space between said bifurcations being too narrow to permit the part 9 of the lever passing between them, so that the lever is held in the opening 7 securely.

The forwardly-directed horizontally flattened member 10 of said lever has its forward end seated between the depending lugs or ribs 5 on the pressure-bar 4, the lugs or ribs thus preventing side movements or displacements laterally of the lever.

The angular outer edges of the walls of the slot 2 in the barrel 1 are beveled at 11 to provide access to the bar 8, so that the same may be easily raised by the finger-tips. When the part 8 of the lever is raised, as shown in said Fig. 2, the lower member 10 pushes up the pressure-bar 4, the curved medial part 9 tilting, and the bifurcated end of the pressure-bar riding up on it and serving as a fulcrum therefor. In this way, the pressure-bar is elevated to compress the reservoir 3 to expel the air therein, the compression beginning at the rear end of the reservoir and gradually extending to its delivery-end to completely empty it. When the lever-part 8 is then released, the natural elasticity of the reservoir in reacting, forces down the pressure-bar to its initial position, thus restoring the lever to its first position, the part 8 thereof then lying in the slot 2, and held from engagements with outside objects.

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

1. In a fountain-pen, a barrel having a longitudinal slot, an elastic compressible ink-reservoir in said barrel, a pressure-bar underlying said ink-reservoir and having one end bifurcated, a J-shaped lever having its longer member movably seated in the barrel-slot, its bent part mounted between the bifurcations of the pressure-bar, and its shorter member underlying the pressure-bar.

2. In a fountain-pen, a barrel having a longitudinal slot, an elastic compressible ink-reservoir in said barrel, a pressure-bar underlying the reservoir and having depending laterally-spaced lugs, and a J-shaped lever having its longer member seated movably in the barrel-slot, its shorter member located under the pressure-bar with its extremity located between the depending lugs thereof.

3. In a fountain-pen, a barrel having a longitudinal slot, an elastic compressible ink-reservoir in said barrel, a pressure-bar underlying the reservoir having depending

laterally-spaced lugs and having one end bifurcated with the inner spacing of the bifurcations wider than its outer spacing, and a J-shaped lever whose longer member is seated in the barrel-slot to swing outwardly, its middle bent part passed through the wider spacing of the pressure-bar bifurcations, and its shorter member underlying the

pressure-bar with extremity seated between said depending lugs.

Signed at Waterloo, Iowa, this 11th day of March, 1916.

WILLIAM A. WELTY.

Witnesses:

PEARL M. STANTON,
G. C. KENNEDY.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents Washington, D C."