

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

Patented Jan. 16, 1917.

1,212,297.

Fig. 1.

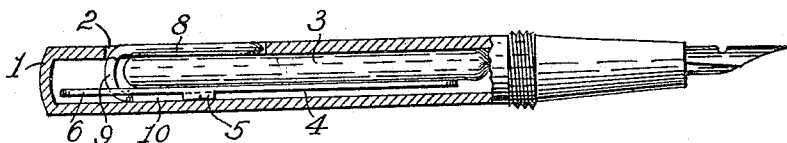


Fig. 2.

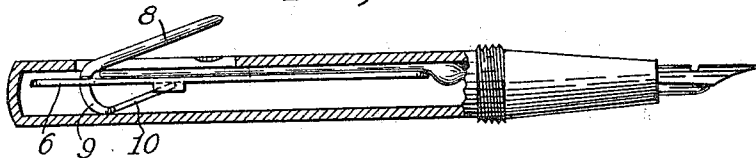


Fig. 3.

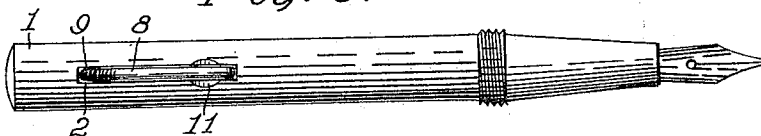


Fig. 4.

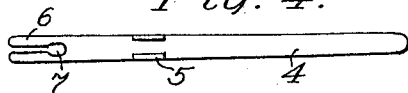
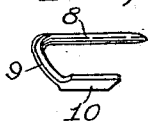


Fig. 5.



Inventor,
W. A. Welty, by
G. B. Kennedy,
Attorney.

UNITED STATES PATENT OFFICE.

WILLIAM A. WELTY, OF WATERLOO, IOWA.

FOUNTAIN-PEN.

1,212,297.

Specification of Letters Patent. Patented Jan. 16, 1917.

Application filed March 16, 1916. Serial No. 34,608.

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."