

S. JOSSELYN.
 FOUNTAIN PEN.
 APPLICATION FILED SEPT. 18, 1916.

1,214,310.

Patented Jan. 30, 1917.

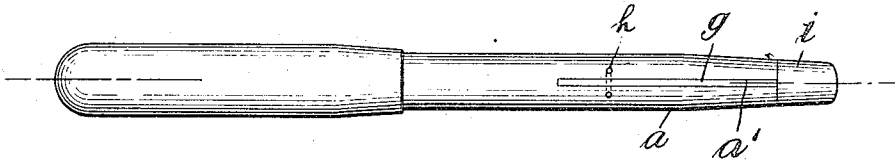


Fig. 1.

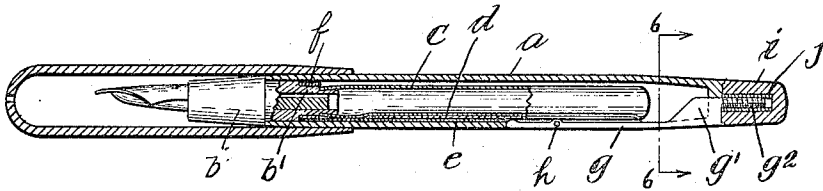


Fig. 2.

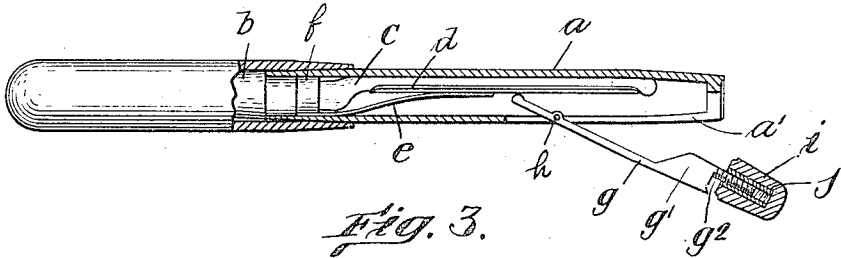


Fig. 3.

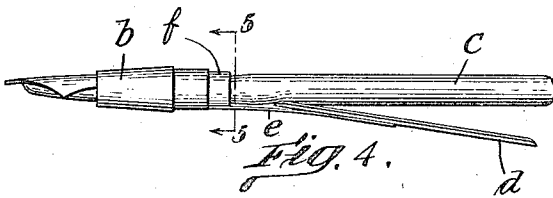


Fig. 4.

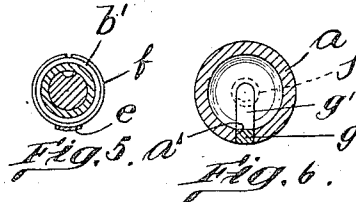


Fig. 5.

Fig. 6.

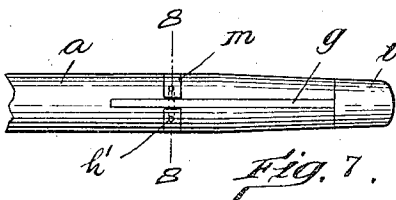


Fig. 7.



Fig. 8.

Witness.
 H. B. Davis

Inventor.
 Stewart Josselyn
 by Lloyd Hamman
 atty

UNITED STATES PATENT OFFICE.

STORMONT JOSSELYN, OF ATLANTIC, MASSACHUSETTS, ASSIGNOR OF ONE-HALF TO
S. CHILTON CROCKER, OF BOSTON, MASSACHUSETTS.

FOUNTAIN-PEN.

ISSUED

1,214,310.

Specification of Letters Patent. Patented Jan. 30, 1917.

Application filed September 18, 1916. Serial No. 120,607.

To all whom it may concern:

Be it known that I, STORMONT JOSSELYN, a citizen of the United States, residing at Atlantic, in the county of Norfolk, in the State of Massachusetts, have invented an Improvement in Fountain-Pens, of which the following is a specification.

This invention relates to that class of fountain pens in which an expansible rubber sack is provided within the barrel, and mechanical means is provided in connection therewith for collapsing the same; and, more particularly, to that particular type of fountain pen in which a presser plate is arranged to engage the sack throughout substantially its entire length, and a lever is pivotally connected to the pen barrel in position to press the plate against the sack, to collapse the same, so that when the sack is permitted to expand, it will be filled with the liquid in which the pen section has been dipped.

Prior to my invention, various devices of the above-described character have been produced, but said devices have, so far as I am aware, been open to certain objections, some of the more important of which have been difficulty in operation, unreliability of the locking means for the operating lever, unsightly or inconvenient projections, and excessive cost of manufacture.

The objects of my invention are to provide a fountain pen, of the character above referred to, in which the lever operating means is arranged to permit easy and convenient compression of the sack; and in which a convenient and effective means for locking said operating means is provided. Further, to provide a construction and arrangement which will enable the production of a fountain pen which has a smooth, continuous surface throughout the length of the pen barrel, so that it will have substantially the same appearance as an ordinary fountain pen, unprovided with mechanical means for collapsing the sack, and which is of simple and durable construction, so that it is unlikely to get out of order, and may be manufactured at a reasonable cost. I accomplish these objects by the means shown in the accompanying drawing, in which:—

Figure 1 is a side elevation of a fountain pen embodying my invention. Figs. 2 and 3 are central longitudinal sectional views thereof, showing the operating parts in dif-

ferent positions. Fig. 4 is a detail view of the presser plate and its supporting means. Fig. 5 is a cross-sectional view, on an enlarged scale, taken at the line 5—5 of Fig. 4. Fig. 6 is a similar view, taken at the line 6—6, Fig. 2. Fig. 7 is a plan view, showing a slightly modified form of my invention. Fig. 8 is an enlarged sectional view, taken at the line 8—8, Fig. 7.

As shown in the drawing, the barrel *a* has the usual pen section *b* mounted therein, and a rubber sack *c* is provided, which is arranged in the barrel, and connected to a reduced portion on the inner end of the pen section.

A presser plate *d* is arranged to extend longitudinally of the rubber sack, throughout substantially the entire length thereof, said presser plate being connected to a spring arm *e*, which is, in turn, connected to a metal split collar *f*, the latter being arranged to grasp a reduced portion *b'*, on the inner end of the pen section. The pen barrel *a* is further provided with a straight, narrow slot *a'*, which extends longitudinally thereof from a point adjacent the middle, to the closed end of the barrel, and partly across the end wall thereof, and an operating lever *g* is mounted to swing in said slot *a'*, about a pivot *h*, located in the barrel intermediate the lever, and in such a position that the exterior surface of the lever is flush with the surface of the pen barrel, when the lever is in its normal or inoperative position.

The lever pivot is arranged to provide a short, or presser-plate-engaging-arm, and a long, or operating-arm, the end-portion of which is provided with an offset portion *g'*, which is adapted to be received by the slot in the end wall of the barrel, and from the end of which a screw-threaded tip portion *g²* is arranged to extend beyond the end of the barrel, and in central alinement therewith, when the lever is in its normal, or inoperative position. A cap-nut *i* is threaded on said tip-portion *g²*, and is adapted to be screwed thereon against the end of the barrel, being constructed to form a continuation of the tapering end portion thereof, and provide a suitable tip end therefor. Said nut may be made of metal, to provide an ornamental tip, or of the same material as the barrel, usually hard rubber, and, when made of the latter, will be preferably provided with an internal bushing *j*, in which

the threads are formed. The tip end of the barrel is slightly cupped or recessed in its end, and the adjacent end of the nut *i* is correspondingly formed to enter the same, so that the nut must be unscrewed to a substantial extent, before the lever *g* can be swung out of its normal position. Movement of the lever is thus prevented, even though the nut should become loosened to a slight extent.

To fill the pen, the nut *i* is unscrewed to the necessary extent, and the lever *g* is swung outwardly, to cause its short arm to force in the presser plate, and collapse the sack, as shown in Fig. 3, so that, when the lever is swung back to its normal position, the expansive force of the sack will cause the ink to be drawn therein in the usual manner. The nut *i* will then be screwed against the end of the barrel again, to lock the lever in its normal position. During the operation of the lever, the nut *i* provides a convenient handle, or means for grasping it with the fingers.

Figs. 7 and 8 show a slightly modified form of my invention, in which, instead of arranging the pivot *h'* directly on the hard rubber of the barrel, a metal band *m* is provided to receive the same, which is arranged about the pen barrel, flush with the surface thereof, said band being also made to serve for ornamental purposes, if desired.

I claim:—

1. In combination with the barrel of a fountain pen having a collapsible sack therein, a presser-plate arranged to engage said sack, a lever pivotally mounted in said barrel and arranged to engage said plate to collapse the sack when swung from its normal position, and a nut threaded on the end of said lever and arranged to be screwed into

locking engagement with the end of the barrel, to lock the lever in inoperative position.

2. In combination with a fountain pen barrel having a longitudinal slot extending continuously from an intermediate point in its side wall into the end wall thereof, a lever pivotally mounted in said slot and having one arm thereof provided with an offset portion, arranged to extend into the slotted portion of said end wall, and a threaded extension, projecting beyond said end wall of the barrel, a nut threaded on said extension and adapted to be screwed against said end wall, to lock said lever in inoperative position, and a collapsible sack in the barrel having a presser-plate arranged to be engaged by the opposite arm of said lever.

3. In combination with a fountain-pen barrel having a slot in its wall extending longitudinally thereof from its closed end, a lever pivotally connected to the barrel to swing in said slot, and, in the normal position thereof, to lie with its outer surface flush with the surface of the barrel, one arm of said lever having a threaded end-portion extending beyond the end of the barrel in central alinement therewith, when the lever is in said normal position, a nut threaded on said end-portion, adapted to be clamped against the end of the barrel, to lock said lever in said position, and constructed to provide a continuous surface with the adjacent portion of the barrel, and a collapsible sack in the barrel having a presser-plate arranged to be engaged by the opposite arm of the lever.

In testimony whereof, I have signed my name to this specification.

STORMONT JOSSELYN.

Witness:

L. H. HARRIMAN.