G. F. BARRETT.

FOUNTAIN PEN.

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1,038,068.

Patented Sept. 10, 1912.

Fig: 1.

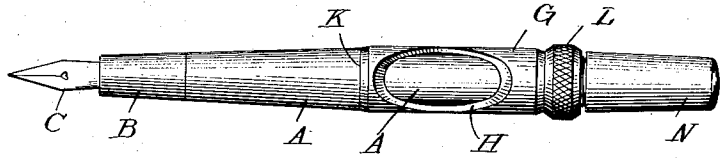


Fig: 2.

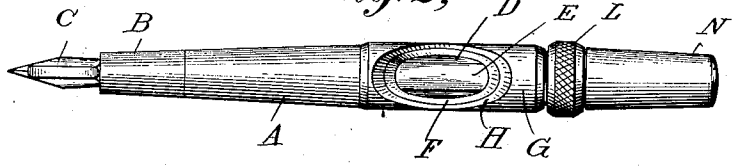
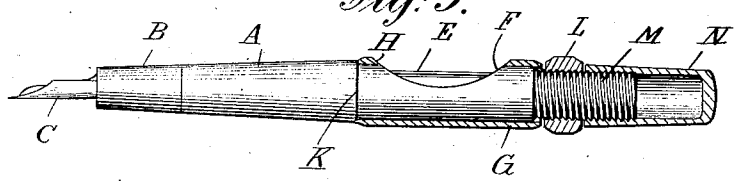


Fig: 3.



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UNITED STATES PATENT OFFICE.

GEORGE F. BARRETT, OF RIDGEFIELD PARK, NEW JERSEY.

FOUNTAIN-PEN.

1,038,068. Specification of Letters Patent. Patented Sept. 10, 1912.

Application filed February 16, 1912. Serial No. 678,044.

To all whom it may concern:

Be it known that I, GEORGE F. BARRETT, a citizen of the United States, and a resident of Ridgefield Park, in the county of Bergen and State of New Jersey, have invented certain new and useful Improvements in Fountain-Pens, of which the following is a specification.

This invention relates to certain improvements in fountain pens, more particularly to that class of fountain pens which are provided with means for quickly and conveniently filling the same with ink; and the object of the invention is to provide the pen with means for conveniently filling the same with ink and to insure against the accidental discharge of the ink from the pen when the same has been filled.

To the accomplishment of the above objects, and to such others as may hereinafter appear, the invention comprises a fountain pen provided with a compressible ink reservoir contained in a barrel member having a finger opening, a guard sleeve having a finger opening loosely mounted on said barrel member, and a guard ring screw connected to said barrel member for retaining said guard sleeve in closed position.

While the invention is to be described with particular reference to the details of construction, the same is not to be considered as limited thereto, as many changes may be made and still fall within the scope of the appended claim.

Referring to the drawings: Figure 1 is a front elevation of a fountain pen made in accordance with my invention, the guard sleeve being shown in closed position for use. Fig. 2 is a view, similar to Fig. 1, showing the guard sleeve in open position to permit of the ink reservoir being filled. Fig. 3 is a side view of Fig. 2 showing the guard sleeve, guard ring and cap in cross section.

In the drawings, A designates the body or barrel member of the pen, which is provided at one end with the pen section or plug B whereon the pen point C is carried in a well known manner. With the pen-section is connected in a well known way, an elastic or compressible ink-reservoir D, which is usually made of a soft rubber tube, closed at its upper end and arranged to communicate at its lower end with the feed opening of said pen-section, so that when the pen-point C is dipped in a supply of ink and said soft rubber tube D is compressed to expel the air from its interior through such feed opening, the elasticity of the walls of said tube or reservoir D will upon release of pressure upon the same, serve to cause said tube to resume its original form, so that ink, from the supply in which the pen point has been dipped, will be drawn up through the feed opening to fill said tube or reservoir with sufficient ink to permit of the pen being used to write for a considerable time.

A metal strip E is provided which extends along the side of the tube or reservoir D which is adapted to compress said reservoir along substantially its entire length when pressure is applied at about the central part of the said strip, and F designates an elliptical opening provided in one side of the barrel member A at or near the central part thereof and of dimensions sufficient to permit of convenient insertion of the tip of the finger of the user to press the strip E so as to compress the reservoir D as before explained.

The opening F in the barrel member is covered by means of a guard sleeve G, which fits loosely over the barrel member, the guard sleeve being provided on one side with an elliptical opening H adapted to register with the elliptical opening F in the barrel member when the guard sleeve is turned to the position shown in Fig. 2. When the guard sleeve G is turned a half a revolution from the position shown in Fig. 2 it assumes the position shown in Fig. 1 so as to cover and protect the ink reservoir D.

In order to prevent accidental rotation or displacement of the guard sleeve G, the barrel member A of the pen is provided with a shoulder K against which the guard sleeve G is forced by the action of a guard ring L which is suitably threaded and arranged to fit upon suitable threads M made on the end of the barrel member and on which the cap N is also adapted to be screwed. It is to be noted that the cap N is adapted to be screwed on to the end of the barrel member only to a certain set distance, so as to leave sufficient room for the free movement back and forth upon the threads M of the guard ring L; and the internal diameter of this cap N is customarily such, with respect to that of the screw threaded portion M, that the cap fits very tightly, and can be unscrewed only with difficulty, whereas the

guard ring L has customarily a freer fit on the screw threaded part M. The cap N therefore forms a stop for the guard ring L, preventing the same from being unscrewed so far that it may drop off and be lost. It will be obvious that only a slight unscrewing of the ring L is necessary in order to free the guard sleeve G and permit the latter to be turned. Therefore there is no occasion, in the use of the pen, to unscrew the ring L more than a turn or two, but careless users would be very apt to unscrew the ring L completely and lose it, except for the provision of the stop formed by the cap N.

From the above it will be seen that in order to fill the ink reservoir it is necessary to first unscrew the guard ring L by giving the same about a half turn so as to relieve the pressure against the end of the guard sleeve G, the other end of the sleeve being forced against the shoulder K. When this has been done the guard sleeve can be easily turned to the position shown in Fig. 2, and the pen filled, after which the guard sleeve is turned to the closed position and the guard ring L screwed against the end of it to hold it securely in position as shown in Fig. 1, in which position the pen is ready for use.

From the above description it will be seen that the improved fountain pen constructed according to my invention is of an extremely simple and inexpensive nature and is especially well adapted for use by reason of the readiness and convenience with which the ink-reservoir may be filled when empty, and of the security and ease with which the opening in the barrel is closed when the pen is filled to prevent accidental spilling of the ink.

What I claim is:—

A fountain pen comprising a barrel having a finger opening in its wall and having, adjacent to said opening, a shoulder, a compressible ink-reservoir in the barrel exposed at the finger opening of the barrel, and a sleeve having a finger opening, one end of said sleeve being arranged to come in contact with the shoulder on said barrel, a guard ring screw connected to said barrel for forcing and retaining said sleeve against said shoulder as and for the purposes set forth, and a further member screw connected to said barrel in rear of said guard ring, there being a slight distance between said further member and guard ring when the guard ring is pressing the sleeve against said shoulder; whereby the said further screw threaded member forms a stop for the guard ring.

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

GEORGE F. BARRETT.

Witnesses:

LEO J. MATTY,

D. A. DAVIS.