Jan. 28, 1930. A. E. CHAPMAN 1,744,951

FOUNTAIN PEN

Filed May 22, 1926

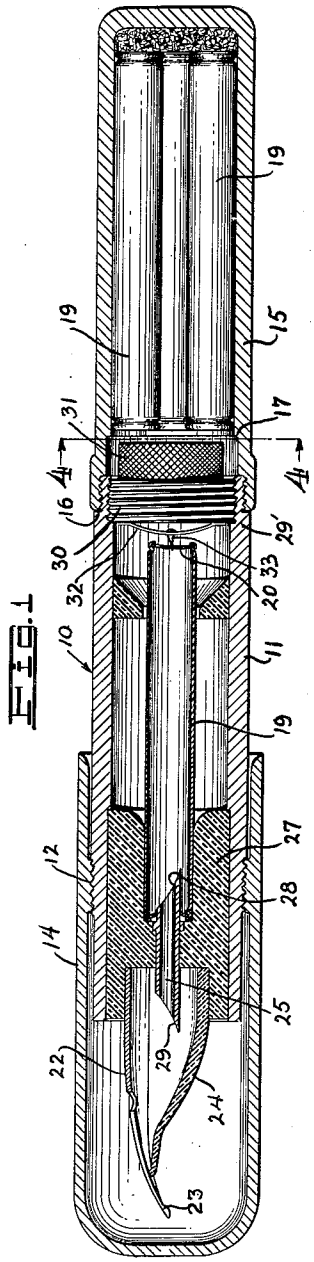


FIG. 1

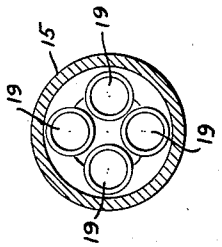


FIG. 4

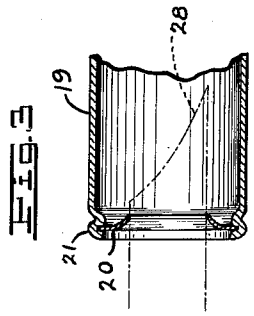


FIG. 3

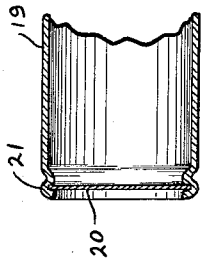


FIG. 2

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Patented Jan. 28, 1930 1,744,951

UNITED STATES PATENT OFFICE

ALONZO E. CHAPMAN, OF EL DORADO, CALIFORNIA, BY DECREE OF DISTRIBUTION TO JESSIE C. OGDEN, SISTER OF SAID CHAPMAN, DECEASED

FOUNTAIN PEN

Application filed May 22, 1926. Serial No. 110,944.

This invention relates to fountain pens.

The general object of the invention is to provide a fountain pen wherein the ink is stored in a removable capsule so that a fresh supply may be readily inserted.

A specific object of the invention is to provide a fountain pen including a storage chamber and having an ink compartment therein so constructed that capsules of ink may be taken from the storage compartment and placed in the ink compartment where they will be utilized.

Other objects of the invention will be apparent from the following description taken in connection with the accompanying drawings, wherein:

Fig. 1 is a longitudinal sectional view showing a fountain pen embodying the features of my invention;

Fig. 2 is a fragmentary section of a portion of a capsule and the closing means therefor;

Fig. 3 is a view similar to Fig. 2 showing the closure punched, and

Fig. 4 is a section on line 4—4, Fig. 1.

Referring to the drawing by reference characters, I have indicated a fountain pen generally at 10. This pen comprises a body portion 11 having threads 12 thereon which engage the threaded portion of a cap 14. The body 11 is provided with a receptacle 15 which is threaded to the body by threads 16.

The receptacle is shown as provided with a rabbet 17 while within the receptacle I arrange capsules 19. These capsules are for holding ink and may be made of metal, celluloid, or other material and they are preferably provided with closures 20 which are of frangible material such as metal foil, celluloid or other material. The closures at each edge of the capsule are shown as held in place by beads 21, although the closures may be secured in any other desired manner.

The pen point is indicated at 22 and is provided with nibs 23. The ink control device as shown at 24 has communication with a tube 25. The device 24 is arranged in a cored plug 27 which may be made of rubber and the tube 25 is held in this plug 27.

The tube 25 has pointed ends 28 and 29 and the pointed end 28 is adapted to pierce the closure 20 to allow ink to flow from the ink capsule 19. The end 29′ of the body is closed by a threaded plug 30 which may have a milled head 31 thereon by which it may be removed. The plug 30 is shown as provided with a resilient head 32 which has a piercing prong 33 thereon which is adapted to pierce one end closure 20 of the capsule. The outer surface of the point of the prong 33 may be fluted to provide air passages if desired. The opening produced by the prong 33 provides a vent so that ink may flow from the capsule.

In using my device one of the capsules is pushed into the plug 27 until it assumes the position shown in Fig. 1, with one end of the capsule opened. The plug 30 is then moved to its seat causing the piercing prong 28 to pierce the capsule so that the ink is free to flow to the nibs 23. The receptacle portion 15 is then replaced and the pen is ready for use.

The capsules in the receptacle 15 enable the supply of ink to be quickly replenished without soiling the fingers, and without having ink splashed about.

From the foregoing description it will be apparent that I have provided a novel form of fountain pen which can be economically manufactured and which is highly efficient in use.

Having thus described my invention, I claim:

In a fountain pen having a capsule compartment and a reserve compartment, a partition therebetween, a resilient head on said partition, a puncturing point carried by said head and extending into the end of the capsule compartment, a closure plug in the opposite end of the capsule compartment, the closure plug having a seat to receive the capsule and combined puncturing and ink leading means extending into the seat in said plug, said closure plug being provided with pen point holding means.

In testimony whereof, I hereunto affix my signature.

ALONZO E. CHAPMAN.