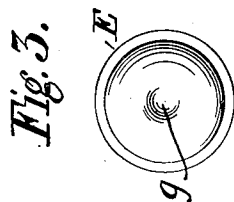
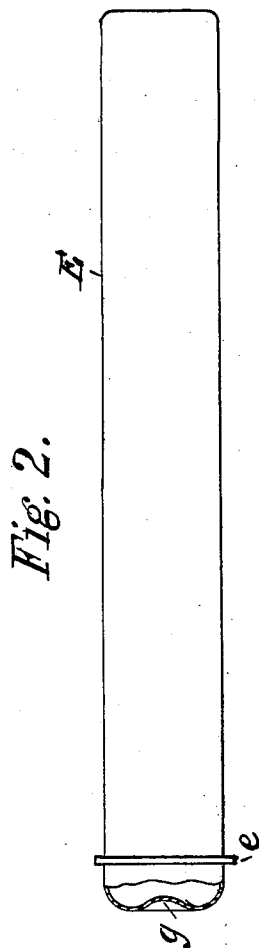
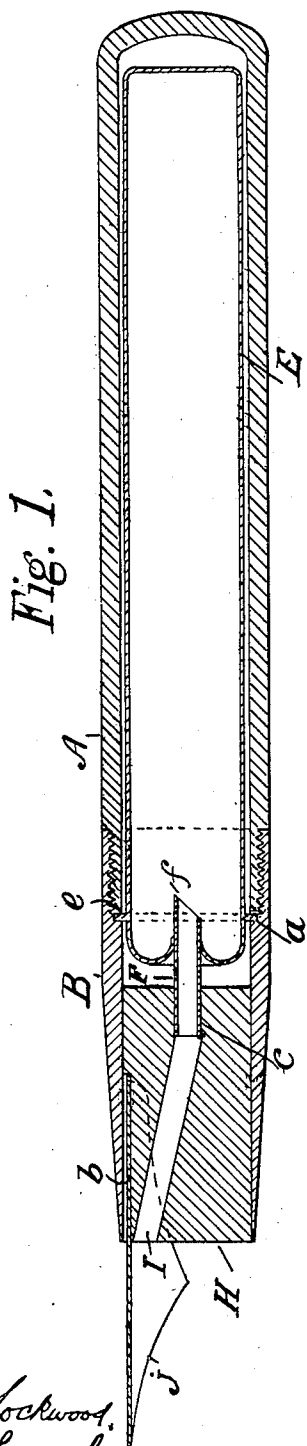


No. 849,110.

PATENTED APR. 2, 1907.

F. W. ERICKSON.
 FOUNTAIN PEN.
 APPLICATION FILED JAN. 7, 1907.



Witnesses
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UNITED STATES PATENT OFFICE.

FREDERICK WM. ERICKSON, OF NEW YORK, N. Y.

FOUNTAIN-PEN.

No. 849,110.

Specification of Letters Patent.

Patented April 2, 1907.

Application filed January 7, 1907. Serial No. 351,072.

To all whom it may concern:

Be it known that I, FREDERICK WM. ERICKSON, residing at New York, in the county of New York and State of New York, have invented certain Improvements in Fountain-Pens, of which the following is a specification.

The present invention relates to fountain-pens and similar articles in which an independent fountain of fluid is inclosed in a barrel or handle and allowed to flow from a small orifice.

I describe the invention as embodied in a fountain-pen composed of a barrel or handle adapted to be screwed onto a hollow nose-piece which has in its outer end a plug or pen-support, through which is a small passage inclined from the center of the rear end of the plug toward the edge of the outer end, and from the rear end of the passage there projects a metal tube whose end terminates in a sharp cutting edge. Inclosed in the barrel of the device is a cartridge or tubular ink-holder made from thin pliable material, such as celluloid, gelatin, or the like. This cartridge is closed at both ends when made, excepting an orifice in the center of one end, through which the ink is inserted and then is sealed up, and is provided with a shoulder near the sealed end by means of which the cartridge is held in between the barrel and the nose-piece. It is intended that these cartridges be filled and sealed at the factory and sold to customers as an article of manufacture.

In the drawings which form a part of and illustrate the invention, Figure 1 is a longitudinal section of the fountain-pen. Figs. 2 and 3 are respectively side and end views of the cartridge.

In the drawings, A represents a tube or barrel provided with a screw-thread on one end to engage the internal thread in the end of the nose-piece B, a space *a* being left between the end of the barrel and the internal screw.

A plug H fits tightly in one end of the nose-piece B, having a space *b* on its periphery for the insertion of a pen *j*. At its rear end is a straight hole *c*, which meets the hole I and forms a continuation thereof inclined toward the edge of the space *b*, and in the hole *c* is inserted a metal tube F, which projects into the barrel and has its end brought to a sharp point *f*.

A cartridge or tube E, made from celluloid

or gelatin, forms the ink-holder and has at one end a shoulder *e* and when made has an opening through which the ink is inserted, after which the opening is sealed, leaving a slight depression. These filled and sealed cartridges are supplied to the trade, and when one is to be put into use the barrel A is unscrewed from the part B and the sealed end of the cartridge inserted. Its central part is pressed against the point *f* of the tube F, so that the latter cuts the wall of the cartridge and enters the same until the shoulder *e* bears upon the ledge at the end of the internal thread. Then the barrel is screwed down upon the shoulder and holds the cartridge in place firmly. When the pen is to be used, a shake thereof causes the ink to flow to the pen. The shoulder *e* forms a gasket for the parts A and B and prevents ink from entering the barrel, and therefore it is not essential that the joint between the puncturing-tube F and the cartridge be perfectly tight. There will not be very much ink escape in any event, as the tube makes a clean cut in the wall of the cartridge, and therefore a fairly good joint is left.

The depression *g* serves as a guide to the point *f*, which when it reaches the bottom thereof cuts its way through the wall of the cartridge.

I claim as my invention—

1. As an article of manufacture constituting a reservoir for a fountain-pen, a tube of soft pliable material containing a liquid, provided with a collar upon its periphery and having a depression on one end, as set forth.

2. As an article of manufacture constituting a reservoir for a fountain-pen, a tube of gelatin containing writing fluid, provided with a collar upon its periphery, and having a depression on one end, as set forth.

3. As an article of manufacture constituting a reservoir for a fountain-pen, a tube of soft pliable material containing a liquid provided with a collar upon its periphery and sealed at its ends.

4. A fountain-pen consisting of a barrel part and a pen-holding part screwed to each other, the latter part having a passage from its outer end into the barrel terminating in a cutting edge or point, with an ink-holding receptacle held in position in the barrel and in connection with the said passage.

5. A fountain-pen consisting of a tubular handle and a pen-holding portion screwed to each other, the latter having a passage from

its outer end into the handle terminating in a cutting edge or point, with an ink-holding receptacle provided with means whereby it is held in position in the barrel and in connection with the said passage.

6. A fountain-pen consisting of a tubular handle and a pen-holding portion screwed to each other, the latter having a passage from its outer end into the handle and there provided with a cutting edge or point, with an ink-holding receptacle having a collar on its periphery held between the meeting ends of the handle and said portion, substantially as set forth.

7. A fountain-pen consisting of a tubular handle and a pen-holding portion screwed to each other, the latter having a passage from its outer end into the handle and there provided with a cutting edge or point, with an ink-holding receptacle of pliable yielding material having a collar on its periphery held between the meeting ends of the handle and said portion, substantially as set forth.

8. A fountain-pen consisting of a tubular handle and a pen-holding portion screwed to

each other, the latter having a passage from its outer end into the handle terminating in a tube having a cutting end or point, with a removable ink-holding receptacle of pliable material having a collar on its periphery held between the meeting ends of the handle and said portion, as set forth.

9. A fountain-pen consisting of a tubular handle and a pen-holding portion screwed to each other, the latter having an inclined passage from its outer end into the opposite end of which is inserted a metal tube with a sharp point or edge, with a removable ink-holder of gelatin having a collar on its periphery held between the meeting ends of the handle and said portion, the said tube continuing the passage into the said holder, as set forth.

In testimony whereof I have signed my name to this specification, in the presence of two subscribing witnesses, this 31st day of December, 1906.

FREDERICK WM. ERICKSON.

Witnesses:

F. W. LORD,

EDWARD KIRKHAM.