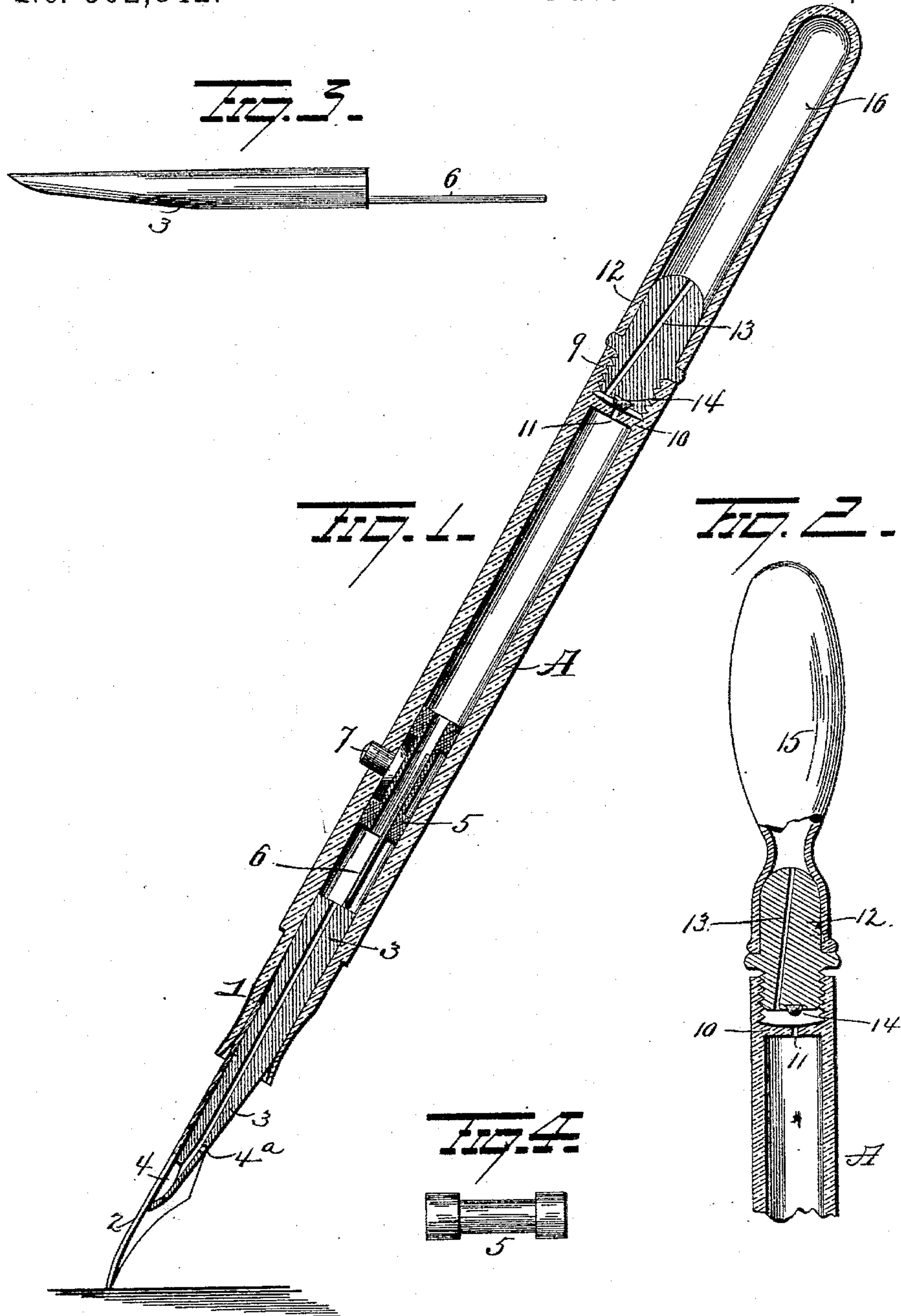


(No Model.)

V. E. MINICH.
FOUNTAIN PEN.

No. 562,842.

Patented June 30, 1896.



Witnesses
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UNITED STATES PATENT OFFICE.

VERNE E. MINICH, OF PAOLA, KANSAS.

FOUNTAIN-PEN.

SPECIFICATION forming part of Letters Patent No. 562,842, dated June 30, 1896.

Application filed October 24, 1895. Serial No. 566,742. (No model.)

To all whom it may concern:

Be it known that I, VERNE E. MINICH, a resident of Paola, in the county of Miami and State of Kansas, have invented certain new and useful Improvements in Fountain-Pens; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to an improvement in fountain-pens, the object of the invention being to produce a successful fountain-pen in which the ink will not be fed to the pen-point by capillary attraction nor by the pressure of air let into the upper end of the barrel.

A further object is to so construct a fountain-pen that its liability to leak or flood when in use or when not in use will be obviated.

A further object is to produce a fountain-pen which can be carried in the pocket of the user, point down, without danger of soiling the clothes.

A further object is to produce a fountain-pen which shall be simple in construction, comparatively cheap to manufacture, and which shall be effectual, in all respects, in the performance of its functions.

With these objects in view the invention consists in certain novel features of construction and combinations and arrangements of parts, as hereinafter set forth, and pointed out in the claims.

In the accompanying drawings, Figure 1 is a sectional view of my improved pen. Figs. 2, 3, and 4 are detail views.

A represents the pen barrel or fountain, provided at its forward end with a neck 1, adapted for the reception of a pen-point 2 and a tubular feed-bar 3, the latter fitting into the neck 1 as a plug. The opening in the feed-bar is quite small and at its forward end terminates in an elongated lateral opening 4 close to the nibs of the pen. The feed-bar can be readily moved in the neck 1 to adjust it for pens of different sizes, but normally fits sufficiently tight to prevent any accidental displacement. The feed-bar and pen are separate, one from the other, and can therefore be adjusted relatively to each other. Within the barrel, in rear of the neck 1, a short section 5 of soft-rubber tubing is placed, and

into this tubing an arm or rod 6 on the feed-bar projects so as to prevent the formation of air-bubbles in the end of said tube, the presence of which would interfere with the free flow of ink through the same. A small button 7 normally rests on the soft-rubber tube 5 and projects through a hole in the barrel. By pressing this button the rubber tube will be contracted and the ink will be forced through the feed-bar to the pen-point. When the supply of ink on the pen-point becomes exhausted or the flow of ink becomes slackened, pressure on the button 7 will cause the pen-point to be replenished with ink.

The rear end of the barrel A is made with an internally-screw-threaded socket 9, the bottom 10 of which closes the rear or upper end of the barrel, said bottom 10 being made with a small hole 11 for a purpose presently explained. A plug 12, having a diagonal hole 13 through it, is adapted to screw into the socket 9 and is provided with a soft-rubber cushion 14, adapted to normally close the hole 11 air-tight.

When it is desired to fill the pen, a rubber bulb 15 will be placed on the plug 12 and the plug turned backwardly one or more turns, so as to open the hole 11. The pen-point will then be inserted into the ink and the ink drawn into the barrel through the feed-bar, the ink entering the latter through the lateral opening 4 and a small hole 4^a in said feed-bar.

When the pen is not in use, the pen-point will be covered by a cap 16, and when the pen is in use the cap 16 will be placed on the plug 12.

My improvements are very simple in construction, comprise but few parts, and are effectual, in all respects, in the performance of their functions.

Having fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. In a fountain-pen, the combination with the pen-barrel, a short yielding section therein constituting a narrow pass through which the ink passes, and means for compressing this section, of a tubular feed-bar having an arm or bar thereon which projects into the short yielding section, substantially as set forth.

2. In a fountain-pen, the combination with a barrel having a socket at its upper end, the bottom of said socket closing the upper end of the barrel and having a small hole therein, 5 a plug adapted to screw into said socket and having a diagonal hole through it, a cushion on the plug adapted to close the hole in the bottom of the socket, said plug being adapted for the reception of a rubber bulb for filling the barrel through the feed-bar, substantially as set forth.

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

V. E. MINICH.

Witnesses:

M. E. HEDDING,

GEORGE LEAT.