J. A. VOGELMANN.

SELF FILLING FOUNTAIN PEN.

APPLICATION FILED NOV. 22, 1909.

961,663. Patented June 14, 1910.

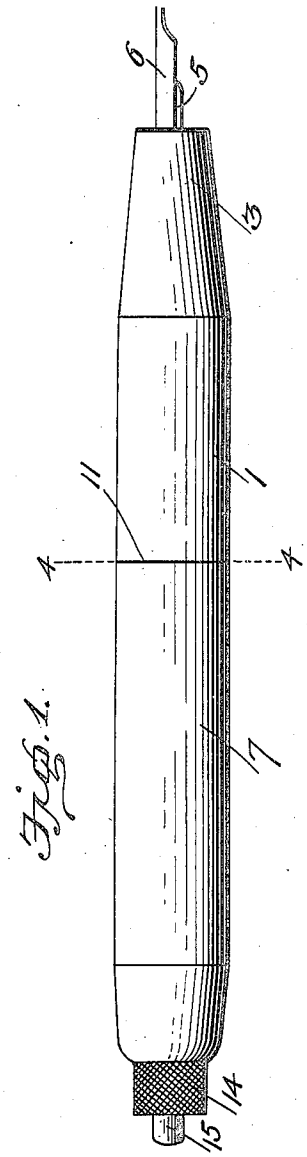

Fig. 1.

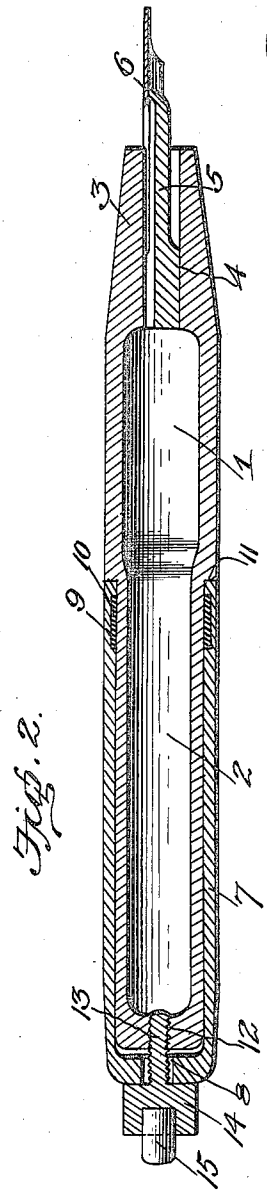

Fig. 2.

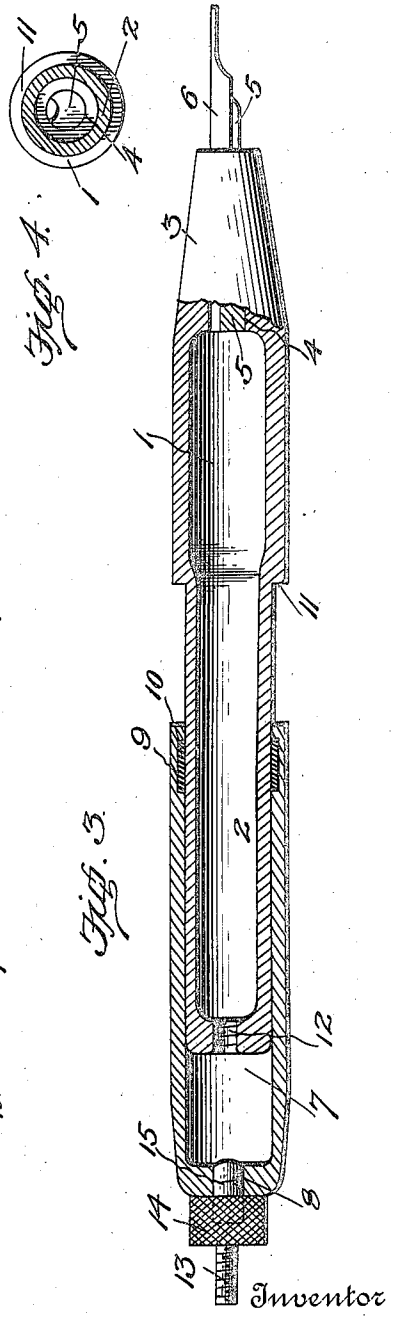

Fig. 4.

Fig. 3.

Witnesses

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UNITED STATES PATENT OFFICE.

JOSEPH ANTHONY VOGELMANN, OF BROOKLYN, NEW YORK.

SELF-FILLING FOUNTAIN-PEN.

961,663. Specification of Letters Patent. Patented June 14, 1910.

Application filed November 22, 1909. Serial No. 529,229.

To all whom it may concern:

Be it known that I, JOSEPH ANTHONY VOGELMANN, a citizen of the United States, residing at Brooklyn, in the county of Kings and State of New York, have invented certain new and useful Improvements in Self-Filling Fountain-Pens; and I do 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.

This invention relates to improvements in fountain pens.

One object of the invention is to provide a fountain pen having means whereby ink may be readily drawn up into the barrel of the pen, said means being attached to and forming a part of the pen.

Another object is to provide a pen of this character which will be simple, strong and durable in construction, efficient and reliable in operation and which will not leak ink.

With the foregoing and other objects in view, the invention consists of certain novel features of construction, combination and arrangement of parts, as will be more fully described and particularly pointed out in the appended claim.

In the accompanying drawings, Figure 1 is a side view of a pen constructed in accordance with my invention; Fig. 2 is a longitudinal sectional view showing the parts in closed or operative position; Fig. 3 is a similar view showing the parts in position for drawing ink into the pen barrel; Fig. 4 is a cross sectional view on the line 4—4 of Fig. 1.

My improved pen comprises a barrel or body portion 1 having a reduced outer end portion 2, and a tapered pen holding and feeding end 3 provided with a central bore or passage 4 to receive the feeding mechanism 5 and pen 6, which may be of the usual or any suitable construction.

On the reduced outer portion 2 of the barrel 1 is slidably mounted a suction tube 7 in the outer end of which is formed an air passage 8. In the inner side of the suction tube 7 adjacent to its inner end is formed an annular groove 9 in which is arranged a packing ring 10, which forms an air tight engagement with the outer side of the reduced portion 2 of the barrel. When the suction tube 7 is in a closed or inoperative position, the inner end of the same is adapted to fit into close engagement with the shoulder 11 formed by the reduced outer portion 2 of the barrel, and when the suction tube is thus closed into engagement with the shoulder 11, the outer surface of the tube will be flush with the inner end portion of the barrel and said barrel will thus present a smooth outer surface.

In the outer end of the reduced portion 2 of the pen barrel is formed a threaded passage 12 in which is adapted to be screwed a plug or threaded pin 13, which projects through the passage 8 in the end of the tube 7 and has formed on its outer end a milled head 14 by means of which the same is readily screwed into and out of the threaded passage 12 in the pen barrel. In the outer end of the milled head 14 is secured a rubber plug 15 which when the suction tube is in use for drawing ink into the barrel is adapted to be inserted into the air passage 8, thus providing an air tight closure for the outer end of the suction tube.

When it is desired to fill the pen, the threaded plug or pin 13 is unscrewed from the passage 12 and reversed so that the rubber plug 15 may be inserted in the air passage 8 of the suction tube. After the outer end of the suction tube has thus been closed, the point of the pen is inserted in an ink well and the suction tube drawn outwardly thus sucking ink up into the pen barrel. After the desired quantity of ink has been thus sucked into the barrel, the plug 15 is removed from the air passage 8, thus opening the outer end of the suction tube which will permit the latter to be closed or pushed back onto the pen barrel without forcing any ink therefrom, as the air in the suction tube which is displaced by the outer reduced portion of the barrel, as the tube is closed, will pass out through the air passage 8 in the end of the tube. After the tube has thus been closed upon the pen barrel, the threaded plug or pen is again inserted through the passage 8 in the tube and screwed into the threaded passage 12 in the end of the barrel. When the parts have thus been arranged, the pen is in readiness for use.

From the foregoing description taken in connection with the accompanying drawings, the construction and operation of the invention will be readily understood without requiring a more extended explanation.

Various changes in the form, proportion

and the minor details of construction may be resorted to without departing from the principle or sacrificing any of the advantages of this invention as defined in the appended claim.

Having thus described my invention, what I claim is:—

A fountain pen comprising an ink barrel, a suction tube slidably mounted on said barrel, said tube and barrel having registering vent apertures, and a plug comprising a threaded shank adapted to pass through the aperture in the tube and thread into the aperture in the barrel to close the latter and lock the parts together, and a rubber stud on the opposite end of the plug to enter and close the aperture in the tube independent of the aperture in the barrel.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

JOSEPH ANTHONY VOGELMANN.

Witnesses:
LEWIS DEXTER LUNNIGAN,
WILLIAM F. DAUNT.