F. I. TOLLES.

COMBINATION FOUNTAIN PEN.

APPLICATION FILED JUNE 30, 1911.

1,042,726.

Patented Oct. 29, 1912.

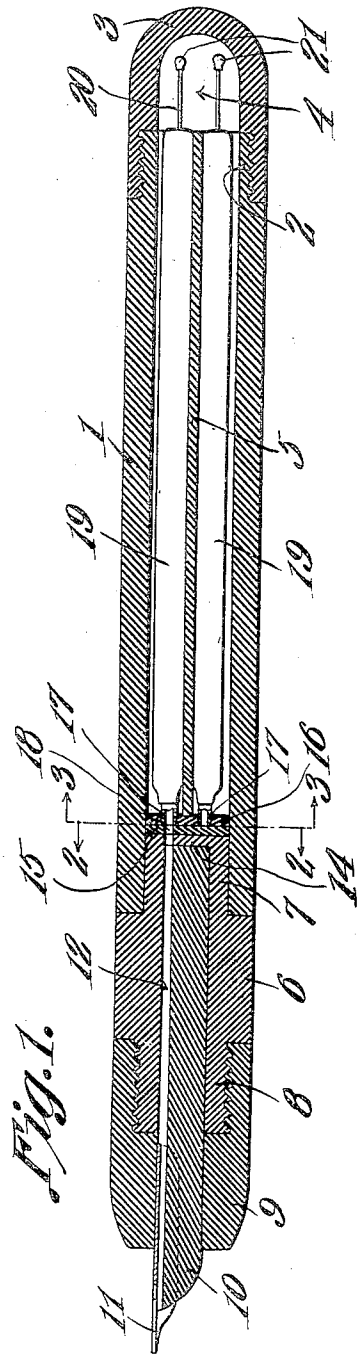

Fig. 1.

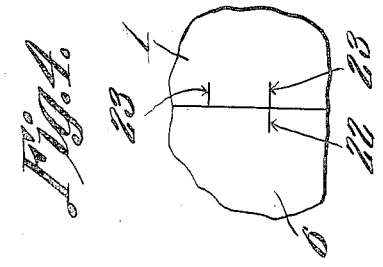

Fig. 4.

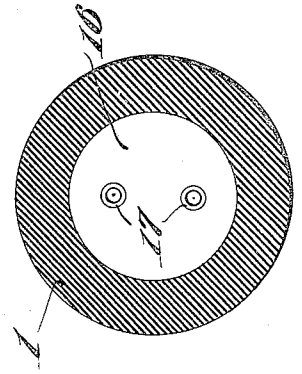

Fig. 3.

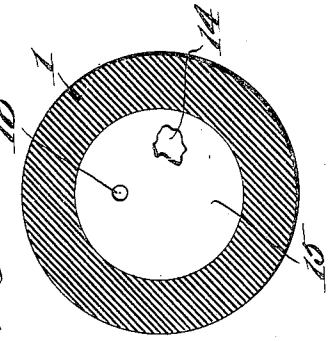

Fig. 2.

Witnesses

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UNITED STATES PATENT OFFICE.

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COMBINATION FOUNTAIN-PEN.

1,042,726. Specification of Letters Patent. Patented Oct. 29, 1912.

Application filed June 30, 1911. Serial No. 636,171.

To all whom it may concern:

Be it known that I, F. I. TOLLES, a citizen of the United States, residing at East Toledo, in the county of Lucas and State of Ohio, have invented a new and useful Combination Fountain-Pen, of which the following is a specification.

It is the object of the present invention to provide a fountain pen, adapted to contain two separate supplies of inks, which supplies may be of different colors, either supply of ink being fed to the pen point, at will.

A further object of the invention is to provide novel means for filling a fountain pen.

With the above and other objects in view, which will appear as the description proceeds, the invention resides in the combination and arrangement of parts and in the details of construction hereinafter described and claimed, it being understood that changes in the precise embodiment of invention herein disclosed can be made within the scope of what is claimed without departing from the spirit of the invention.

In the drawings,—Figure 1 shows the invention in longitudinal section; Fig. 2 is a transverse section on the line 2—2 of Fig. 1; Fig. 3 is a transverse section on the line 3—3 of Fig. 1; and Fig. 4 is a diagrammatic plan of a portion of the outer surfaces of the barrel and the connection, adjacent their line of meeting.

In carrying out the invention there is provided, as a primary and fundamental element, a cylindrical barrel 1, open at both ends. At its rear end, the barrel 1 terminates in a reduced, threaded neck 2, adapted to fit within a cap 3, having a central chamber 4, communicating with the bore of the barrel 1. Located within the barrel 1, is a longitudinal partition 5, dividing the interior of the barrel into two separate compartments.

The invention further includes a connection 6, having a reduced end 7, adapted to fit smoothly, without threading, into the forward end of the barrel 1. The opposite end of the connection 6 is provided with a reduced neck 8, threaded to engage with a thimble 9, into which is inserted a tip 10. The tip 10 supports, in the usual manner, a pen point 11, which extends backwardly into a duct 12, formed in the outer face of the tip 10, the rear end of the pen point 11, being received within the thimble 9. The connection 6 is provided with a closed end wall 14, to which is secured a resilient disk 15, adapted to abut against another resilient disk 16, the disk 16 resting against the end of the partition 5, and engaging frictionally with the inner wall of the barrel 1. Inserted through the disk 16, are spaced tubes 17, either of which may be alined with an opening 18 through the disk or washer 15 and through the end wall 14, when the connection 6 is rotated. The opening 18 is alined with the duct 12, and communicates therewith. About each of the tubes 17, is secured a resilient, compressible reservoir 19, the reservoirs being located upon opposite sides of the partition 5. The reservoirs 19 are equipped, at their rear ends, with stems 20, extended beyond the end of the barrel 1, the stems being received within the chamber 4 of the cap 3. The stems 20 may terminate in knobs 21.

Presupposing that the pen is empty, the operation of filling the same is as follows: The connection 6 is rotated in the barrel 1, until the opening 18 is alined with one of the tubes 17, this alinement being secured by bringing a mark 22 upon the connection 6 into alinement with the proper mark 23 upon the barrel 1, as shown in Fig. 4. The cap 3 is then removed, and the stems 20 are thus exposed. The appropriate stem may then be twisted, twisting the corresponding reservoir 19, and forcing the air out of this reservoir. The pen point 11 being dipped into a source of supply, if the twisted reservoir 19 be released, it will be understood readily that ink of one color, may be sucked into a particular reservoir. The connection 6 is now rotated, until the mark 22 upon the connection 6 is alined with the other mark 23 upon the barrel 1. This will aline the opening 18 with the other tube 17, whereupon the other reservoir 19 may be filled in the manner hereinbefore described. Obviously, between the filling of the two reservoirs, the opening 18 may be moved out of alinement with both of the tubes 17, whereupon any ink which is in the duct 12, may be shaken out, and the pen point 7 be wiped dry. There will, therefore, be no appreciable intermingling of inks of different colors.

In use, as will be understood, the opening 18 may be alined with one or the other of the tubes 17, permitting ink of the desired color to flow to the pen point 11.

It will be understood that, owing to the

fact that the washers or disks 15 and 16 abut against each other, and are resilient, there will be no leakage of ink, when the connection 6 is rotated, to aline the opening 18 successively with the tubes 17.

It will be understood readily, that one of the reservoirs 19 may be filled with ink, the other reservoir being filled with air merely. Should the ink become clogged in the duct 12, the ink applying element may be rotated so that the duct 12 will register with that reservoir which contains air, whereupon the air reservoir may be manipulated through the medium of one of the stems 20 to expel the clogged ink from the duct 12.

Having thus described the invention, what is claimed is:—

In a fountain pen, a barrel; a partition extended longitudinally of the barrel; a compressible reservoir upon each side of the partition; separate means connected with the rear ends of the reservoirs for manipulating the reservoirs individually; a member resting against one end of the partition and having openings communicating with the reservoirs; and an ink-applying element rotatable in the barrel and having an opening alinable with each of the openings in said member; the partition constituting a reinforcement for the barrel and serving to prevent a distortion of one of the reservoirs when the manipulating means of the other reservoir is operated, the partition engaging the reservoirs to prevent the said member from rotating when the ink-applying element is rotated.

In testimony that I claim the foregoing as my own, I have hereto affixed my signature in the presence of two witnesses.

F. I. TOLLES.

Witnesses:
A. W. PAYNE,
WM. M. TOLLES.