

H. B. McKEE.
 FOUNTAIN PEN FILLER.
 APPLICATION FILED APR. 14, 1910.

982,283.

Patented Jan. 24, 1911.

Fig. 1.

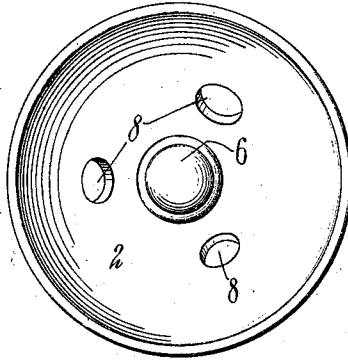


Fig. 2.

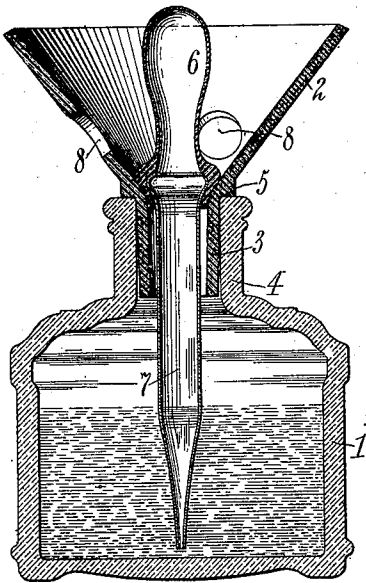


Fig. 3.

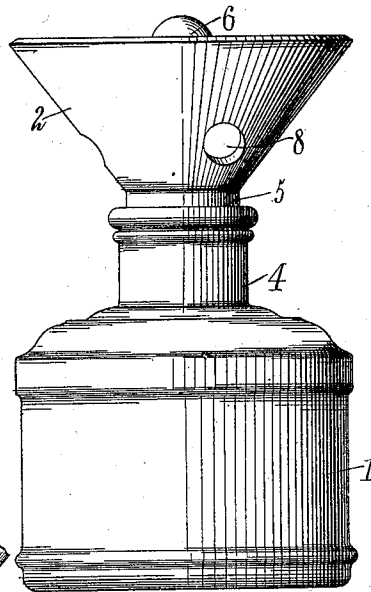
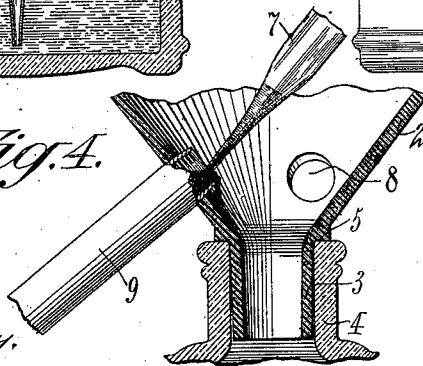


Fig. 4.



Witnesses:
Harry J. Fleischer
F. George Barry.

Inventor:
Henry B. McKee
 by his attorneys
Brunt & Ward

UNITED STATES PATENT OFFICE.

HENRY B. McKEE, OF LAKEHURST, NEW JERSEY.

FOUNTAIN-PEN FILLER.

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Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, HENRY B. McKEE, a citizen of the United States, and resident of Lakehurst, in the county of Ocean and State of New Jersey, have invented a new and useful Improvement in Fountain-Pen Fillers, of which the following is a specification.

The object of my invention is to provide a novel device by means of which a fountain pen may be-filled without undue care being taken and without liability of spilling the ink, the form of the device being such that the pen will be automatically held in a diagonal position and the exterior of which will be kept dry throughout the filling operation, the said device forming an attachment for the bottle containing the fountain pen ink.

A further object is to provide a device of the above character, in which the overflow from the fountain pen during the filling operation may be directed back into the bottle and in which the sides of the fountain pen adjacent to the mouth of the reservoir may be thoroughly wiped as the pen is withdrawn from the device after being filled.

A still further object is to provide a device in which the necessity of cleaning the dropper after the filling operation, is obviated.

A practical embodiment of this invention is represented in the accompanying drawings, in which—

Figure 1 represents the device in top plan, Fig. 2 is a vertical central section through the device showing it in connection with an ink bottle, Fig. 3 is a view in side elevation of the same, and Fig. 4 is a detail central section showing the method of filling the fountain pen.

1 designates a bottle of any desired shape and size, which bottle contains the fountain pen ink. A funnel 2 of any desired shape and cross sectional form has its spout 3 fitted to the neck 4 of the bottle, a circumferential shoulder 5 being preferably formed at the base of the spout 3 of the funnel for resting upon the mouth of the bottle. This funnel is preferably made of some elastic material, such, for instance, as pliable rubber. The ink dropper comprises the usual rubber bulb 6 and glass tube 7. The portion of the rubber bulb 6 of the ink dropper which surrounds the inner end of the tube 7 is fitted to the interior of the funnel 2 at the base of

the spout 3 so that the said dropper forms a cork for closing the ink bottle. The glass tube of the ink dropper is made sufficiently long to extend into close proximity to the bottom of the bottle so that the mouth of the tube is sealed by the ink so long as there is any ink remaining in the bottle. The funnel 2 is provided with one or more holes 8 therethrough, in the present instance three of these holes are shown, said holes being of varying diameters so as to fit the barrels of fountain pens of different sizes.

In operation, when it is desired to fill a fountain pen, the parts are separated in the usual manner and the barrel which contains the ink reservoir is inserted through one of the holes 8, the walls of the hole gripping the barrel of the fountain pen sufficiently to hold the same in position by friction. The pen is inserted into a hole which is slightly smaller than the barrel thus causing the pen to be forced into position whereby the friction of the walls of the hole around the pen will hold the pen supported in a diagonal position and will thoroughly wipe all ink from the sides of the pen at the mouth of the reservoir as the pen is withdrawn. The dropper is filled with ink in the usual manner by sucking the same into the tube 7. The ink within the dropper is then squirted into the fountain pen reservoir, no care being necessary to avoid overflowing of the reservoir for the reason that the ink which does overflow will not run down the sides of the barrel but will run back through the spout 3 into the bottle. After the reservoir has been filled to overflowing, a certain amount of ink may be withdrawn from the reservoir for permitting the reception of the other portion of the pen without danger of again overflowing. After the reservoir has been filled, the barrel of the pen may be removed from engagement with the funnel by a twisting motion which will cause the walls of the hole 8 to wipe any superfluous ink from the exterior of the barrel around the mouth of the reservoir.

It will be seen that when the fountain pen barrel is in position for filling, it will be held in a diagonal position so as to permit the ready escape of the air from within the reservoir when the ink is being squirted into the same by the dropper.

After the pen has been filled with ink, the

dropper is returned into the position shown in Figs. 1, 2 and 3, and thus acts as a stopper for closing the mouth of the bottle, and avoiding the usual necessity of cleaning and wiping the dropper.

What I claim is:—

1. A device for use in filling fountain pens comprising a funnel arranged to be engaged with an ink bottle, said funnel having a fountain pen receiving hole through its wall.

2. A device for use in filling fountain pens comprising a funnel arranged to be engaged with an ink bottle, said funnel having a plurality of fountain pen receiving holes of different diameters through its wall for receiving pens of different sizes.

3. A device for use in filling fountain pens comprising a funnel arranged to be engaged with an ink bottle, said funnel having a fountain pen receiving hole through its wall, the walls of which hole are yielding.

4. A device for use in filling fountain pens comprising a funnel arranged to be engaged with an ink bottle, said funnel having a plurality of fountain pen receiving holes of different diameters through its wall for receiving pens of different sizes, the walls of which holes are yielding.

5. A device for use in filling fountain pens comprising a funnel arranged to be engaged with an ink bottle, and having a fountain pen receiving hole through its wall, and an ink dropper arranged to extend through the funnel into the bottle and act as a stopper therefor when not in use.

6. A device for use in filling fountain pens comprising a funnel arranged to be engaged with an ink bottle, and having fountain pen receiving holes of different diameters through its wall for receiving pens of different sizes, and an ink dropper arranged to extend through the funnel into the bottle

and act as a stopper therefor when not in use.

7. A device for use in filling fountain pens comprising a funnel having its spout fitted to engage the interior of the neck of a bottle, the said funnel having a fountain pen receiving hole through its wall, and an ink dropper forming a closure for the funnel spout when not in use.

8. A device for use in filling fountain pens comprising a funnel having its spout fitted to engage the interior of the neck of a bottle, the said funnel having a plurality of fountain pen receiving holes of different diameters through its wall for receiving pens of different sizes, and an ink dropper forming a closure for the funnel spout when not in use.

9. A device for use in filling fountain pens comprising a funnel having its spout arranged to be engaged with the neck of a bottle, and having a fountain pen receiving hole through its wall, said funnel being provided with a circumferential shoulder for resting on the mouth of the bottle.

10. A device for use in filling fountain pens comprising a funnel having its spout arranged to be engaged with the neck of a bottle, and having fountain pen receiving holes of different diameters through its wall for receiving pens of different sizes, said funnel being provided with a circumferential shoulder for resting on the mouth of the bottle.

In testimony, that I claim the foregoing as my invention, I have signed my name in presence of two witnesses, this thirteenth day of April 1910.

HENRY B. McKEE.

Witnesses:

F. GEORGE BARRY,
HENRY C. THIEME.