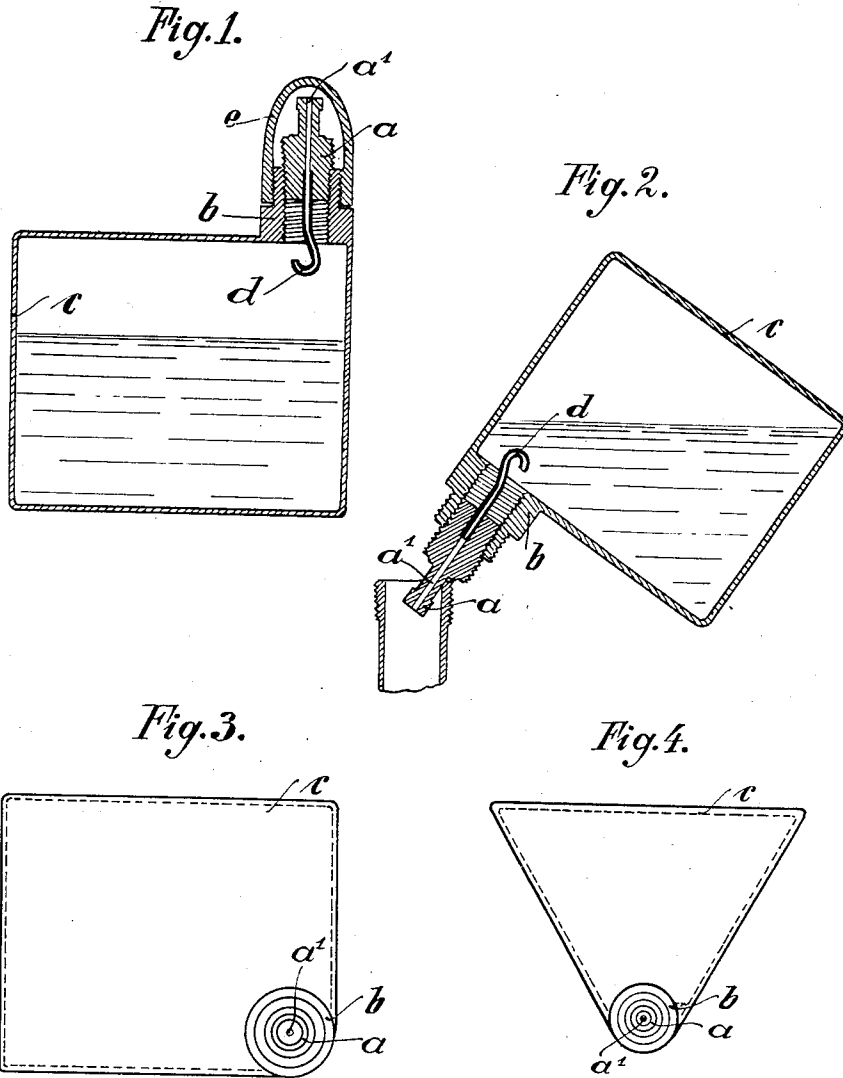


W. G. H. DZIAMBOR.
FILLING BOTTLE FOR FOUNTAIN PENS.
APPLICATION FILED DEC. 31, 1919.

1,381,546.

Patented June 14, 1921.



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UNITED STATES PATENT OFFICE.

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FILLING-BOTTLE FOR FOUNTAIN-PENS.

1,381,546.

Specification of Letters Patent. Patented June 14, 1921.

Application filed December 31, 1919. Serial No. 348,629.

To all whom it may concern:

Be it known that I, WILHELM GEORG HUBERT DZIAMBOR, citizen of Germany, residing at Hamburg, Germany, have invented a certain new and useful Improvement in Filling-Bottles for Fountain-Pens, of which the following is a specification.

For filling the ink into the reservoirs of fountain pens, filling bottles are used, which are provided with an outlet or jet pipe, which at the same time serves as a stopper for the bottle and by which the ink is allowed to run out of the bottle by pressing the walls of the latter more or less together.

With bottles of this kind it frequently happens that in use the ejected ink runs over the rim of the fountain pens and thus soils the hand or fingers. The reason of this is that in pressing the bottle, the ink is liable to run out too quick and sometimes so violently that the reservoir of the fountain pen cannot take up the ink quick enough. Another reason is this that in pouring the ink into the pen, the bottle itself is in the way of the eye of the operator, so that he cannot rightly observe, whether the ink runs into the pen properly. For the latter reason the filling up of fountain pens requires a certain amount of skill and even with skilled persons it frequently happens that the ink runs down on the outside of the pen and soils the hand.

The object of the present invention is to do away with these drawbacks.

One part of the invention therefore consists therein that the jet pipe is provided with a narrow tubular extension projecting into the bottle and bent to somewhat the shape of a hook and attached to the outlet pipe, so as to communicate with its passage. The second drawback is done away with by giving the bottle a rectangular or triangular or similar shape with flat side and by arranging the neck of the bottle on one corner, so that from the neck or outlet merely flat surfaces will extend.

In using the bottle to fill ink into the fountain pen the long channel formed by the passage of the jet pipe and the channel of the bent tube proffers a certain resistance to the flowing out of the ink, so that the air inclosed in the bottle will act in such manner that the ink will be pressed out in a continuous, but in a very slow jet.

Figure 1 is a vertical section of the filler,

constructed according to the present invention. Fig. 2 is a similar view in a position, when in use and Fig. 3 is a plan. Fig. 4 is the plan of a modification.

The jet pipe *a* forming the stopper for the bottle *c* is screwed into the neck or outlet nozzle *b*, which as shown may be arranged at a corner of the bottle *c*, the latter having a rectangular or triangular shape; Figs. 3 or 4 respectively. The jet pipe is provided with an inner tubular extension *d*, which is bent similar to a hook and projects into the center of the pipe *a*, so that the passage *a'* directly communicates with that of the tube *d*. The neck *b* is also threaded outwardly, so as to allow a cap *e* to be screwed to it, when the bottle is to be placed aside. Such cap is not new and forms no part of the present invention.

When the bottle is made rectangular or triangular or otherwise with flat sides, and the outlet nozzle is arranged on the corner, this has the effect that no part of the bottle will be in the way of the eye, when observing the filling of the fountain pen.

I claim:

1. Filling bottle for fountain pens, comprising an outlet neck, a jet pipe, screwed into the outlet neck and a narrow tube so attached to the jet pipe, as to extend into the bottle, the tube having its free end bent to the shape of a hook.

2. Filling bottle for fountain pens, comprising an outlet neck, a jet pipe screwed into the outlet neck and a narrow tube so attached to the jet pipe, as to extend into the bottle, the tube having its free end bent to the shape of a hook, the bottle being formed with flat sides and the outlet neck arranged on a corner of the bottle.

3. Filling bottle for fountain pens comprising an outlet neck, a jet pipe screwed into the outlet neck, and a narrow tube so attached to the jet pipe as to extend into the bottle, the tube having its free end bent through a complete half turn, thus bringing the opening in said tube close to the outlet nozzle and directed toward it.

In testimony whereof, I affix my signature.

WILHELM GEORG HUBERT DZIAMBOR.

Witnesses:

H. BOLMATISTY,
W. SUCHEN.