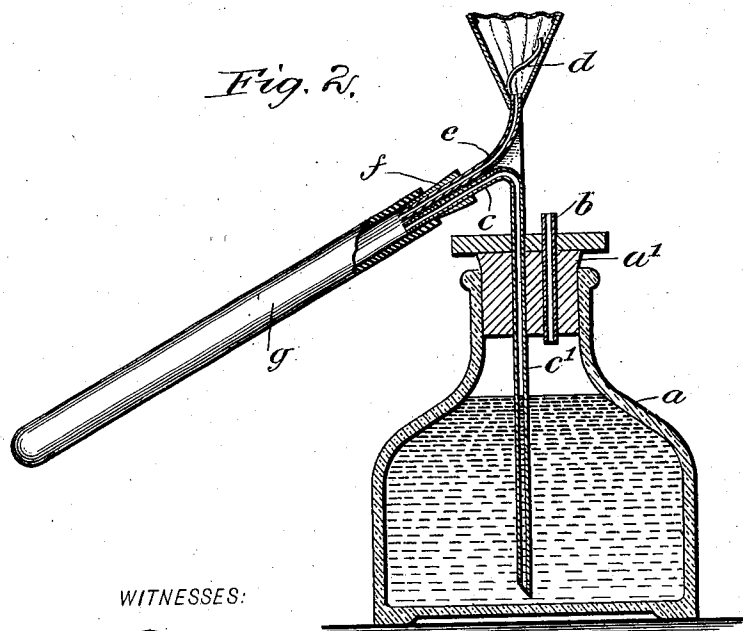
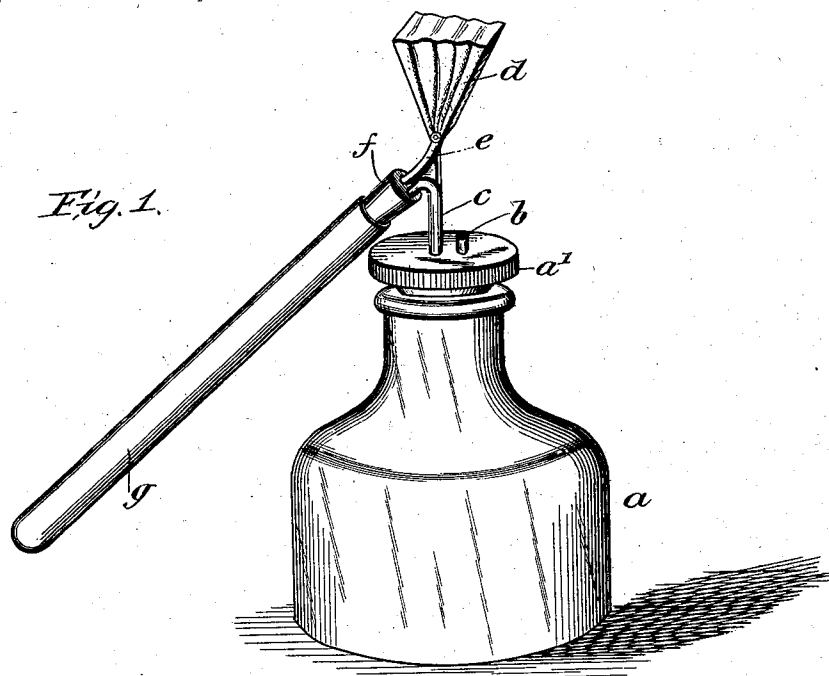


No. 744,521.

PATENTED NOV. 17, 1903.

L. FISK.
DEVICE FOR FILLING FOUNTAIN PENS.
APPLICATION FILED MAR. 18, 1903.

NO MODEL.



WITNESSES:

Paul Hunter
Isaac B. Owens.

INVENTOR

Lyman Fisk

BY

Mumford
ATTORNEYS.

UNITED STATES PATENT OFFICE.

LYMAN FISK, OF WOODCLIFF, NEW JERSEY.

DEVICE FOR FILLING FOUNTAIN-PENS.

SPECIFICATION forming part of Letters Patent No. 744,521, dated November 17, 1903.

Application filed March 18, 1903. Serial No. 148,374. (No model.)

To all whom it may concern:

Be it known that I, LYMAN FISK, a citizen of the United States, and a resident of Woodcliff, in the county of Bergen and State of New Jersey, have invented a new and Improved Device for Filling Fountain-Pens, of which the following is a full, clear, and exact description.

The invention relates to a device intended to facilitate the filling of fountain-pens of various sizes. It is well known that this task is ordinarily a disagreeable and difficult one.

My invention provides for the easy filling of the pen by merely holding the mouth of the pen-reservoir to the spout of the instrument, and upon operating said instrument the ink is caused to flow into the pen-reservoir, all of this being effected without danger of spilling the ink, as repeated operations will not overflow the pen-reservoir.

To this end the device comprises, generally stated, the spout, having means for placing it in communication with the ink-bottle or other source, and a pump for inducing the flow of the ink. This pump is separate from the spout and arranged so that both the pump and spout will communicate separately with the interior of the pen-reservoir, so that upon a sucking effort of the pump the air is partially withdrawn from the pen-reservoir, and the atmospheric pressure causes the ink to flow through the spout into the pen reservoir or fountain.

This specification is an exact description of one example of my invention, while the claims define the actual scope thereof.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar characters of reference indicate corresponding parts in both views.

Figure 1 is a perspective view of the invention, and Fig. 2 is a sectional view thereof.

a indicates the ink-bottle or other reservoir therefor, and *a'* indicates a stopper or closure. This stopper *a'* is provided with an air-vent *b*, so that atmospheric pressure may pervade the interior of the bottle *a*. *c* indicates the spout, the extension *c'* of which is curved downward and passed through the stopper *a'* into the bottle, as shown.

d indicates the pump, here shown in the

form of a bellows, and *e* indicates the nozzle thereof, this nozzle passing in parallelism with the spout *c*, and the two parts *c* and *e* being inclosed by a tapered sleeve *f*, which facilitates the hermetic connection of the pen-font *g* with the elements *c* and *e* and is adapted by its tapering form to any and every sized pen-reservoir, being of such elastic material as to insure hermetic connection therewith.

In the use of the invention the bellows *d* should first be compressed to expel the air therefrom, and then while the bellows is still compressed the pen-font *g* should be engaged with the sleeve *f*, as illustrated, after which upon releasing the bellows the spring thereof will cause the bellows to expand and the air from the pen-font will be withdrawn, whereupon the atmospheric pressure on the ink in the bottle *a* will force the ink through the tube *c'* and spout *c* into the pen.

Various changes in the form, material, proportions, and minor details of my invention may be resorted to at will without departing from the spirit and scope thereof. Hence I consider myself entitled to all such variations as may lie within the intent of my claims.

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

1. A device for filling fountain-pens, comprising a spout and a nozzle formed of two non-communicating tubes, said tubes being in close proximity to each other at one end and diverging at the other end, and a pump in connection with the second end of one tube, the second end of the other tube being capable of introduction into the ink-reservoir.

2. A device for filling fountain-pens, comprising a spout having an extension adapted to be placed in communication with the ink-supply, a nozzle extending alongside of the spout and having its upper end adjacent to the open end of the spout, a pump communicating with the nozzle, and a sleeve inclosing said spout and nozzle and gradually increasing in diameter from the open ends thereof.

3. A device for filling fountain-pens, comprising a spout having an extension adapted to communicate with the ink-supply, a nozzle

juxtaposed to the spout, a pump in communication with the nozzle, and a sleeve inclosing the nozzle and spout and located adjacent to the open ends thereof.

- 5 4. A device for filling fountain-pens, comprising a spout having an extension adapted to communicate with the ink-supply, a nozzle juxtaposed to the spout, a pump in communication with the nozzle, and a sleeve inclosing the nozzle and spout and located adjacent to the open ends thereof, the said sleeve being gradually increased in diameter from the open ends of the spout and nozzle, whereby to facilitate the connection of the pen barrel
10 or fountain.
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5. A device for filling fountain-pens, comprising a stopper adapted to be attached to the ink-bottle and having a vent therein, a spout having an extension passed through the
20 stopper to enter the bottle, a nozzle juxtaposed to the spout, and a pump in communication with the nozzle.

posed to the spout, and a pump in communication with the nozzle.

6. A device for filling fountain-pens, comprising a stopper adapted to be attached to the ink-bottle and having a vent therein, a
25 spout having an extension passed through the stopper to enter the bottle, a nozzle juxtaposed to the spout, a pump in communication with the nozzle, and a sleeve inclosing the nozzle and spout adjacent to their open ends, to facilitate the connection of the pen-font
30 with the nozzle and spout.

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

LYMAN FISK.

Witnesses:

JOSEPH B. BRAMAN,
WILLIAM AHEARN.