(No Model.)

F. C. BROWN.

FOUNTAIN PEN FILLER.

No. 446,202. Patented Feb. 10, 1891.

Fig. 1.

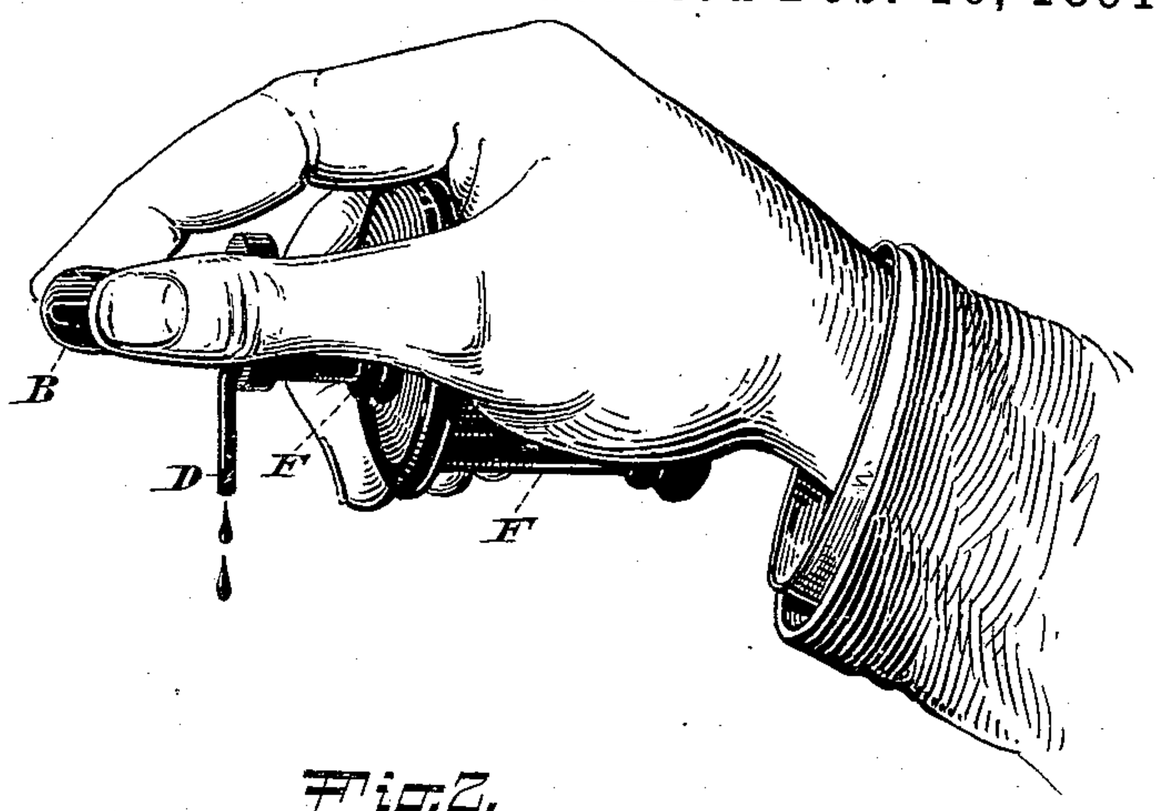


Fig. 2.

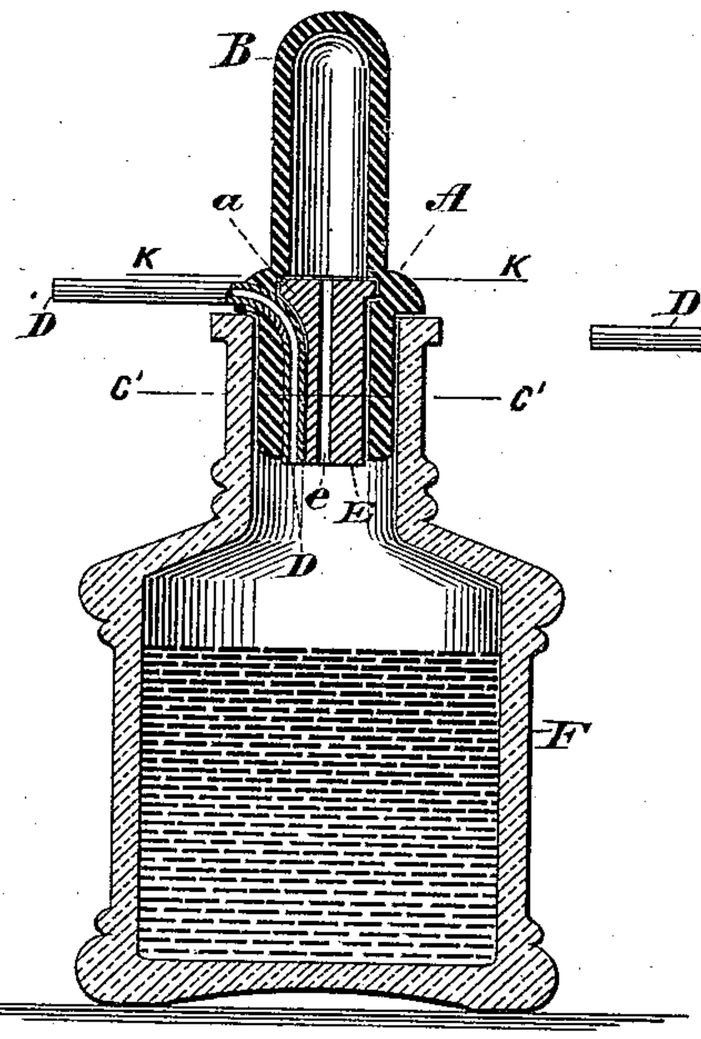


Fig. 4.

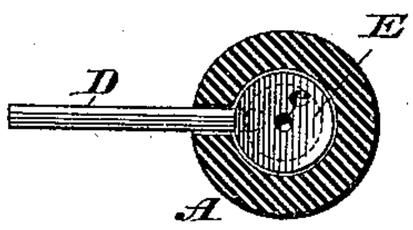


Fig. 6.

Fig. 7.

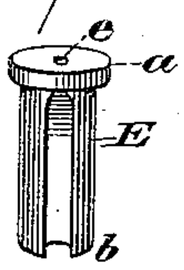


Fig. 5.

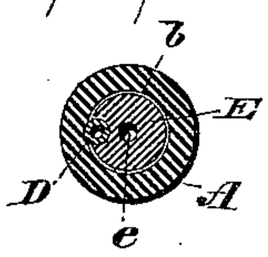
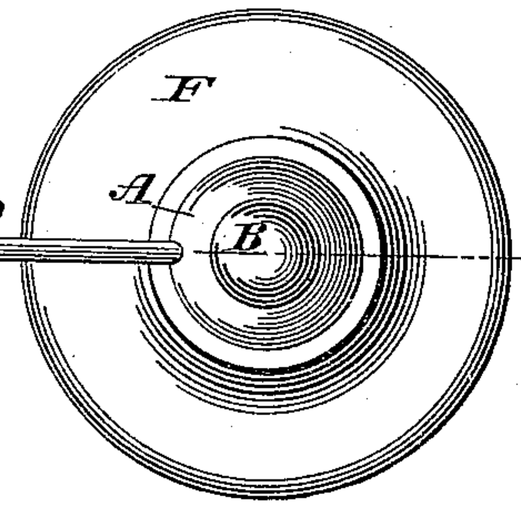


Fig. 3.



WITNESSES:

Gustave Dieterich.

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INVENTOR

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UNITED STATES PATENT OFFICE.

FRANCIS C. BROWN, OF NEW BRIGHTON, NEW YORK, ASSIGNOR TO MARIE BROWN, OF SAME PLACE.

FOUNTAIN-PEN FILLER.

SPECIFICATION forming part of Letters Patent No. 446,202, dated February 10, 1891.

Application filed October 10, 1890. Serial No. 367,684. (No model.)

To all whom it may concern:

Be it known that I, FRANCIS C. BROWN, a resident of New Brighton, Richmond county, and State of New York, have invented an Improved Fountain-Pen Filler, of which the following is a specification.

My invention relates to an improved instrument for conveniently filling fountain-pens, its object being to construct a device whereby a fountain-pen may be filled directly from an ink-bottle, thereby making it unnecessary to transport the ink from the bottle to the pen by an independent carrier. To accomplish this object, I use the device illustrated by the accompanying drawings, wherein—

Figure 1 is a perspective view of the ink-bottle and filler, illustrating the position of the hand and the filler when in use. Fig. 2 is a vertical central section of bottle and filler on line *c c*, Fig. 3. Fig. 3 is a plan view of the bottle and filler. Fig. 4 is a horizontal section on line *k k*, Fig. 2. Fig. 5 is a horizontal section on line *c' c'*, Fig. 2. Fig. 6 illustrates a detached side view of the filler-tube. Fig. 7 is a perspective view of the inner core of the bottle-stopper.

The letter A indicates the flanged stopper of a bottle, preferably constructed of flexible india-rubber, and so formed as to contain and be in one piece with an upper air chamber or bulb B.

E is a core held in the lower part of the stopper A, said core having an upright air-passage *e* to connect the air-chamber B with the interior of the bottle F. This core E may have a rim or flange *a* at or near one end, and has in the preferred construction also a longitudinal groove or passage *b* in or near its side (shown in Fig. 7) to receive and protect the pen-filler tube D, which enters or extends through the stopper, as shown. The interior of the stopper A is recessed to hold and retain the core E, which is inserted to act as a perforated partition between the air-chamber B and the interior of the ink-bottle and to help to retain the tube D.

To use this device the bottle is tipped, as in Fig. 1, or held until the ink covers at least the inner end of the tube D, the outer end of said tube entering or being above the pen-holder to be filled. The bulb B is then compressed and the air therein forced through the hole *e* into the bottle, thereby forcing the ink out through the tube D. The core E and the tube D are preferably made of some hard material, so as not to allow compression, which would render them unserviceable.

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

The combination, in a flanged bottle-stopper A, having formed thereon and made integral therewith an air-bulb B, with the perforated core E, embraced by said stopper A, and with the tube D, held in place by said core E between the same and the external stopper A, all arranged substantially as herein shown and described.

FRANCIS C. BROWN.

Witnesses:

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