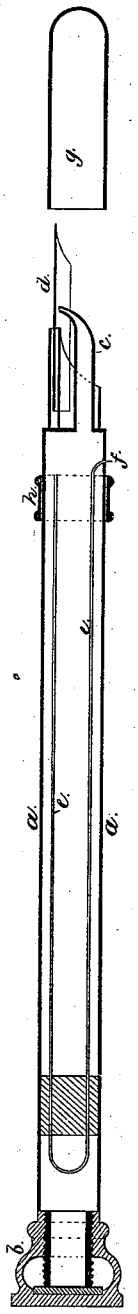
W. A. BRICE.

FOUNTAIN PEN.

No. 184,754 Patented Nov. 28, 1876.




WITNESSES:

W. W. Hollingsworth

Solon C. Kemon.

INVENTOR:

Wm. A. Brice

BY

Munn & Co.

ATTORNEYS.

# UNITED STATES PATENT OFFICE.

WILLIAM ALEXANDER BRICE, OF LONDON, ENGLAND.

## IMPROVEMENT IN FOUNTAIN-PENS.

Specification forming part of Letters Patent No. **184,754**, dated November 28, 1876; application filed October 23, 1876.

*To all whom it may concern:*

Be it known that I, WILLIAM A. BRICE, of Middle Temple Lane, London, England, have invented a new and Improved Fountain-Pen Holder; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawing, forming part of this specification, in which—

The drawing exhibits the holder in longitudinal section.

My invention relates to an improved fountain-pen holder, in which an ordinary pen-nib may be used.

The invention consists in controlling the flow of ink to the nib by admitting the air to replace the ink in the reservoir through a bent U-shaped capillary tube leading from an orifice in the side of the reservoir or holder in a convenient position, to be covered by the thumb or finger of the writer when it is desired to check the supply of ink to the pen. This tube passes up and down the whole length of the ink holder or reservoir, to prevent the ink from running out through it when laid down, and terminates within the holder near the lower end.

*a* is the barrel or cylinder of metal, glass, or porcelain, forming the ink holder or reservoir, closed at one end, at which the supply of ink is introduced by a screw-cap, *b*, and at the other by a curved spout or outlet, *c*, having a minute orifice by which the ink is conveyed to the pen-nib *d* fixed in a suitable clip or holder on the end of the barrel *a*. The spout *c* is bent up and terminates just beneath the inner surface of the nib, as shown. *e* is an air-tube of minute bore leading from an inlet-orifice, *f*, in the barrel *a* in such a position as to be readily covered or uncovered by the fingers which hold the pen in writing. The tube *e* is bent double or U-shaped, and passes from the orifice *f* nearly to the top of the barrel *a*, and back again to its lower end, this end of the tube being always open, and terminating within the barrel *a*, as shown. *g* is a cap for the nib, and *h* a collar sliding on barrel *a* to cover orifice *f* and prevent the escape of ink when the pen is not in use.

In using this pen-holder, when the orifice *f* is uncovered the ink is allowed to flow, by its own gravity, through the outlet *c*, to the pen, the rate of flow being regulated by the admission of air through the tube *e*, which, as before mentioned, has a very minute bore, through which the air passes but slowly. The air, entering through this tube *e*, displaces any ink that may be therein, and when it arrives at the extremity of the tube *e* it ascends in bubbles through the ink to the top end of reservoir.

Having thus described my invention, what I claim as new is—

1. A fountain-pen holder closed at one end and having an outlet, *c*, at the other for the ink, provided with U-shaped air-inlet tube of minute or capillary bore passing up and down within the ink holder or reservoir, and terminating at one end within the said holder or reservoir, and at the other at an orifice in the side of the same in a position to be readily covered and uncovered by the fingers, substantially as herein shown and described.

2. The combination of top-closed barrel *a*, curved spout *c*, and U-shaped air-tube *e*, having orifice *f*, as shown and described, for the purpose set forth.

3. The combination, with air-tube *e*, having orifice *f*, of the collar *h*, arranged to slide on the barrel, as and for the purpose specified.

The above specification of my invention signed by me this 11th day of September, 1876.

WILLIAM ALEXANDER BRICE.

Witnesses:
H. BENNETT,
W. CLARK.