

J. REID.
FOUNTAIN PEN.

No. 41,534.

Patented Feb. 9, 1864.

Fig. 1.

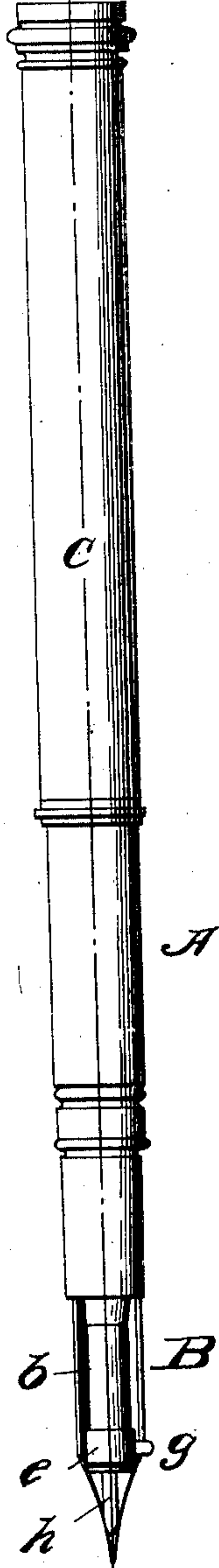


Fig. 2.

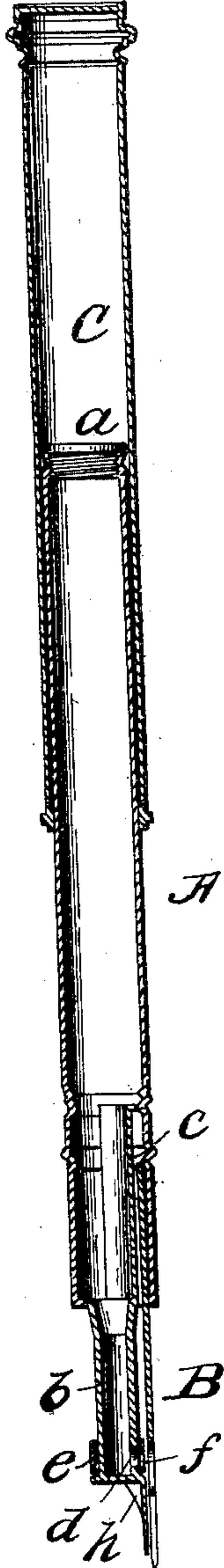
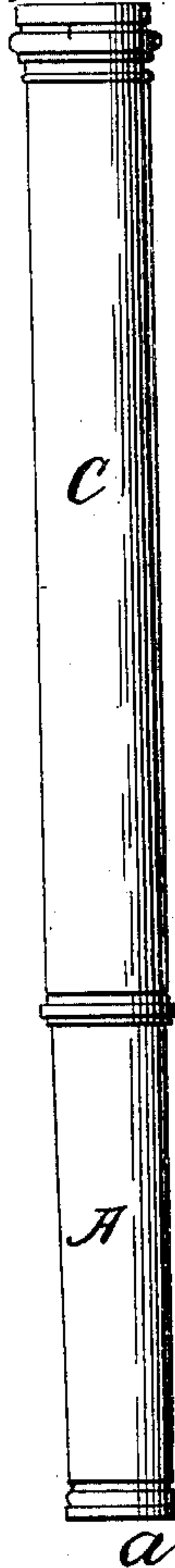


Fig. 3.



WITNESSES *x*

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UNITED STATES PATENT OFFICE.

JOSEPH REID, OF FORT WAYNE, INDIANA.

FOUNTAIN-PEN.

Specification forming part of Letters Patent No. 41,534, dated February 9, 1864.

To all whom it may concern:

Be it known that I, JOSEPH REID, of Fort Wayne, in the county of Allen and State of Indiana, have invented a new and Improved Fountain-Pen; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, making a part of this specification, in which—

Figure 1 is an external view of my invention adjusted ready for use; Fig. 2, a longitudinal central section of the same, *x x*, Fig. 1, indicating the plane of section; Fig. 3, an external view of the same adjusted in a closed state for the pocket.

Similar letters of reference indicate corresponding parts in the several figures.

This invention relates to a new and improved fountain-pen, those which are provided with an ink-reservoir within a case and arranged in such a manner as to be self-feeding or self-supplying.

To enable those skilled in the art to fully understand and construct my invention, I will proceed to describe it.

A represents a tube, one end of which is provided with a screw-stopper, *a*, and the opposite end provided with a tube, *b*, much shorter and smaller in diameter than A, as shown in Figs. 1 and 2.

B represents a pen, which may be constructed in any of the forms in which the metal pens are made. The pen is fitted in a slide or chamber, *c*, made in the end of the tube A, so that the pen when fitted in said slit or chamber will be at the side of the tube *b*, the nib or point of the pen projecting beyond the end of *b*, as shown in Figs. 1 and 2.

At the end of the tube *b*, in the side of it adjoining the pen B, there is made a hole, *d*, (shown in Fig. 2,) and upon the tube *b* there is placed a band, *e*, having a hole, *f*, made in it equal in diameter to the hole *d* in the tube *b*. This perforated band *e* forms a valve, by opening which ink is allowed to escape from

the tube A through *b* and into the hollow of the pen B. The band *e* has a projection, *g*, by which it may be turned and the holes *d f* made to register with each other more or less according to the supply of ink required, and when the device is not in use the supply may be entirely cut-off.

To the end of the tube *b* there is attached a small flat strip, *h*, of metal, which extends along the slit of the pen nearly to its nib or point, as shown in Figs. 1 and 2. This metal strip *h* serves as a conductor to convey the ink to the nib or point.

The tube A is supplied with ink by unscrewing the stopper *a*, and the flow to the pen is obtained by adjusting the band *e* so that its hole *f* will register with the hole *d* in tube *b*.

The tube *b*, in consequence of being smaller in diameter than A, will have a tendency to conduct or feed the ink down by capillary attraction, while the motion communicated to the pen in the act of writing also has a tendency to feed the ink to the pen. When the implement is in use, the end of the tube A is inserted in the end of a case, C, which renders the device of convenient length for a pen-handle, and when the device is not designed for use the pen is inserted in the case C, as shown in Fig. 3. It may then be carried in the pocket.

I do not claim, broadly, a fountain-pen, for they have been previously used and arranged in various ways; but,

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

The arrangement of the ring-valve *e* with the capillary tube *b*, the pen B, and fountain A, in the manner herein shown and described.

JOSEPH REID.

Witnesses:

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PHILIP RIZER.