

G. A. Becker.
Fountain Pen.

No. 106,987.

Patented, Sep. 6, 1870.

Fig. 1

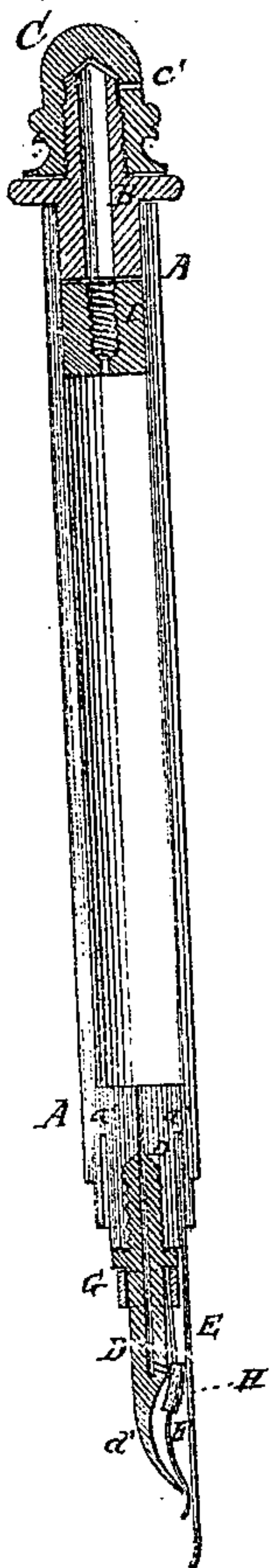


Fig. 2



Fig. 3



Witnesses:

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UNITED STATES PATENT OFFICE.

GUSTAV A. BECKER, OF SEYMOUR, CONNECTICUT.

IMPROVEMENT IN FOUNTAIN-PENS.

Specification forming part of Letters Patent No. **106,987**, dated September 6, 1870.

To all whom it may concern:

Be it known that I, GUSTAV A. BECKER, of Seymour, in the county of New Haven and State of Connecticut, have invented a new and useful Improvement in Fountain-Pens; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawing, forming part of this specification, in which—

Figure 1 is a longitudinal section of my improved fountain-pen. Fig. 2 is a detail side view of the piston-rod. Fig. 3 is a side view of the cap that covers and protects the pen, part being broken away to show the construction.

Similar letters of reference indicate corresponding parts.

My invention relates to fountain-pens; and consists in certain improvements, which will be first described in connection with all that is necessary to a full understanding thereof, and then clearly specified in claims.

A is the handle or holder of the pen, which is made tubular in form, and has a plug, B, fitted closely into its upper end. The plug B is perforated for the passage of the piston-rod, and upon its outer end is cut a screw-thread to receive the cap C, which is screwed upon it. In the side of the screw-cap C is formed a small hole, *c'*, so arranged that when the cap is partly screwed on the air may pass into the interior of the tube A, but when the said cap is screwed down the hole *c'* will come below the upper end of the plug B, as shown in Fig. 1, and prevent the entrance of air.

D is the supply-pipe, which is screwed into a screw-hole formed in the lower end of the handle A. The upper part of the pipe D is perforated, to allow the ink to pass down said perforations, passing out through the middle part of the side of said pipe. The lower part of the pipe D is formed into a tongue, *d'*, to conduct the ink from the outlet to the point of the pen E. The pen E is inserted in a curved or circular crease or slot, *a'*, formed in the solid stock of the lower end of the handle A, so that there can be no leakage around the pen.

F is a spring, the upper end of which is secured to the pipe D by a rubber band or ring, G, slipped over the said spring and pipe, as shown in Fig. 1. The lower end of the spring rests against the point of the pen.

H is a small rubber tube, slipped over the spring F in such a position as to rest upon the discharge-orifice of the pipe D, against which it is held by the spring F. When the point of the pen is sprung back in writing, the elasticity of the spring F raises the rubber H away from the discharge-orifice of the supply-pipe D, allowing the ink to flow to the pen.

I is a piston, fitted into the interior of the tubular handle A, and which has a screw-hole formed in it to receive the end of the piston-rod J. A small perforation leads from the said screw-hole to the lower side of the piston, to allow the air to pass through it when the piston-rod is detached.

K is a cap, which is placed upon the lower end of the tubular handle A when the pen is not in use, to prevent the accidental discharge of ink.

To fill the handle A with ink, the screw-cap C is removed, the piston-rod J is inserted and screwed into the piston I, and a pin or other small article is inserted under the soft-rubber tube H, to keep the discharge-orifice of the pipe D uncovered. The piston-rod is then drawn upward, filling the handle with ink. The pin is then removed, the rod screwed out, and the screw-cap C replaced and screwed partly down, and the pen is ready for use.

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

1. The arrangement with respect to tube A of apertured cap C *c'*, perforated plug B, and threaded perforated piston I, as and for the purpose described.

2. The arrangement of rubber tubes G H and spring F with respect to the supply-pipe D, as and for the purpose described.

GUSTAV A. BECKER.

Witnesses:

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