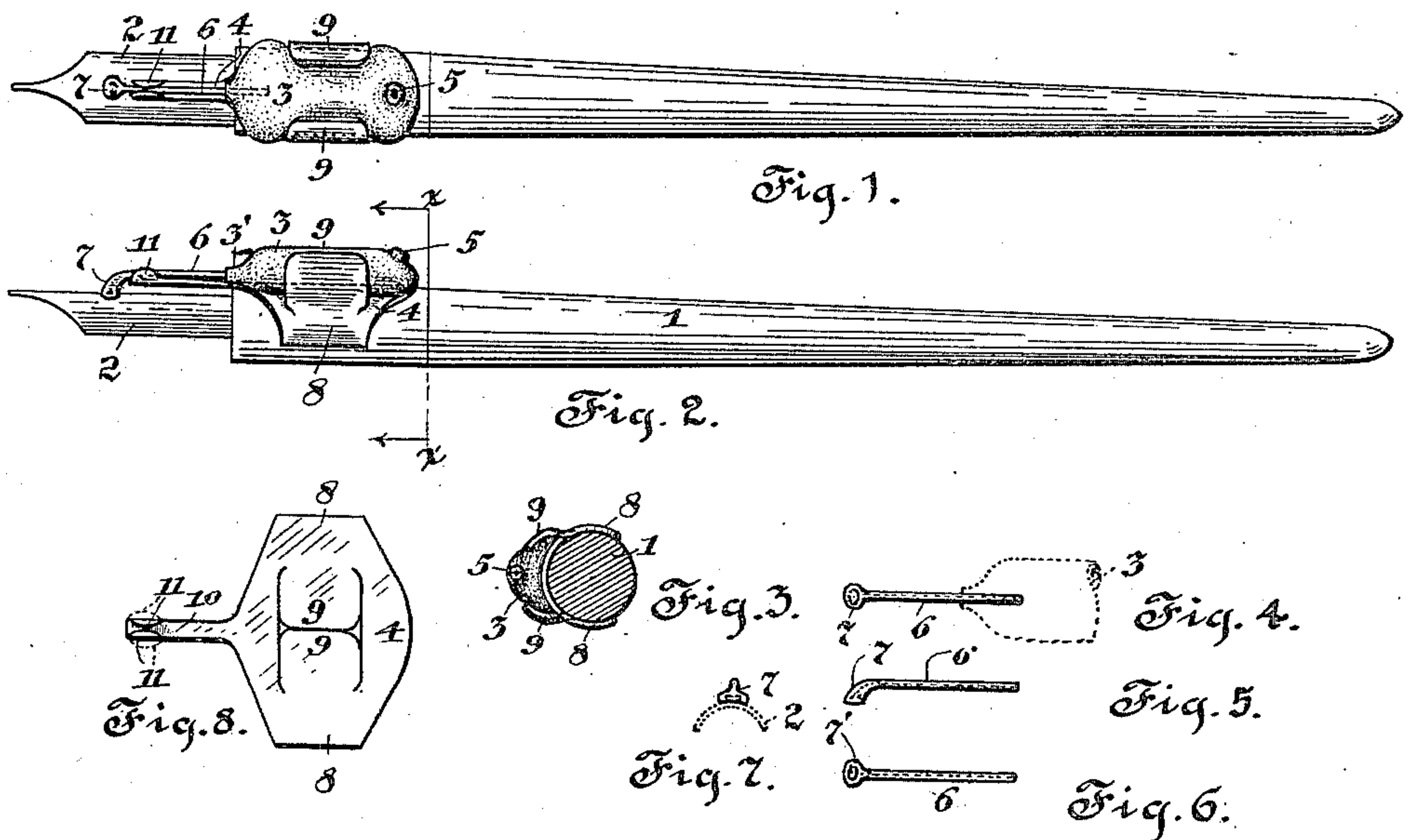


G. J. MARTZ.  
 FOUNTAIN PEN,  
 APPLICATION FILED SEPT. 30, 1909.

960,660.

Patented June 7, 1910.



Witnesses

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# UNITED STATES PATENT OFFICE.

GEORGE J. MARTZ, OF CHICAGO, ILLINOIS.

FOUNTAIN-PEN.

960,660.

Specification of Letters Patent.

Patented June 7, 1910.

Application filed September 30, 1909. Serial No. 520,380.

*To all whom it may concern:*

Be it known that I, GEORGE J. MARTZ, a citizen of the United States, residing at Chicago, county of Cook, and State of Illinois, have invented certain new and useful Improvements in Fountain-Pens, of which the following is a specification.

My invention relates to improvements in fountain pens and has for its object the production of a fountain pen of simple construction and efficient in operation.

The invention consists in the combination and arrangement of parts hereinafter described and claimed.

My invention will be best understood by reference to the accompanying drawings forming a part of this specification, and in which,

Figure 1 is an elevation of a pen embodying my invention, Fig. 2, an elevation at right angles to Fig. 1, Fig. 3, a section on line  $x-x$  of Fig. 2, Fig. 4, a top plan view of the discharge tube for the ink showing a portion of the ink reservoir in dotted lines, Fig. 5, a side elevation of the discharge tube, Fig. 6, a bottom plan view of the discharge tube, Fig. 7, an end view of the discharge tube showing the pen in dotted lines, and Fig. 8, a plan view of the blank from which the bracket for holding the ink reservoir and discharge tube is made.

In the preferred form of construction as illustrated in the drawings, 1 indicates an ordinary pen holder carrying an ordinary pen 2. A rubber bulb 3 is secured in a bracket 4 which is in turn secured to pen holder 1. At its upper end bulb 3 is provided with a small aperture 5 for the admission of air thereto. A capillary discharge tube 6 is secured in the lower end of bulb 3 preferably by having the neck 3' of said bulb stretched thereover. At its lower end tube 6 is provided with an enlarged discharge head 7 having a laterally elongated cavity 7' therein, and the lower surface of said discharge end is curved to nicely fit the pen as indicated in Fig. 3. The bracket 4 is preferably made from a blank as shown in Fig. 8, said blank comprising lateral extensions 8 adapted to be secured to pen

holder 1 by being bent to partially encompass the same as indicated in Fig. 3, and upwardly extending lips 9 adapted to partially encompass rubber bulb 3 to secure the same in position. At its lower end said blank is provided with an extension arm 10 carrying lips 11 at its lower end, the said lips being adapted to be bent upwardly to encompass tube 6 and hold the same in position.

In use the reservoir 3 is filled with ink by placing a finger over aperture 5 and collapsing the same. Then the pen 2 is immersed in ink until discharge end 7 is covered, whereupon the bulb 3 is allowed to expand but with the finger still lightly held over aperture 5 to prevent access of air therethrough. This will cause ink to be drawn upwardly into reservoir 3 where it will be retained by the capillary action of tube 6. Ink is supplied to the pen by simply pressing bulb 3 over aperture 5 with the finger. The laterally elongated discharge opening provides for slight displacements of the discharge tube and the nice fit of the discharge end to the pen assists the capillary action of said tube.

While I have illustrated and described the preferred form of construction for carrying my invention into effect this may be varied or modified without departing from the spirit of my invention. I, therefore, do not wish to be limited to the exact details of construction set forth but desire to avail myself of such variations and modifications as come within the scope of the appended claims.

Having described my invention what I claim as new and desire to secure by Letters Patent is:

1. In a fountain pen, the combination with a pen holder and pen, of a rubber bulb reservoir secured to said holder and exposed to the finger of the writer; an aperture in the upper portion of said bulb; and a capillary discharge tube secured to the lower end of said bulb and having a discharge end contacting with the back of said pen, substantially as described.

2. In a fountain pen, the combination with a pen holder and pen, of a rubber bulb se-

cured to said holder; an aperture in the upper portion of said bulb; and a capillary discharge tube secured to the lower end of said bulb and having an enlarged discharge  
5 end curved to nicely fit the back of said pen, substantially as described.

In testimony whereof I have signed my

name to this specification in the presence of two subscribing witnesses.

GEORGE J. MARTZ.

Witnesses:

RAYMOND PAUL,  
A. R. EVANS.