

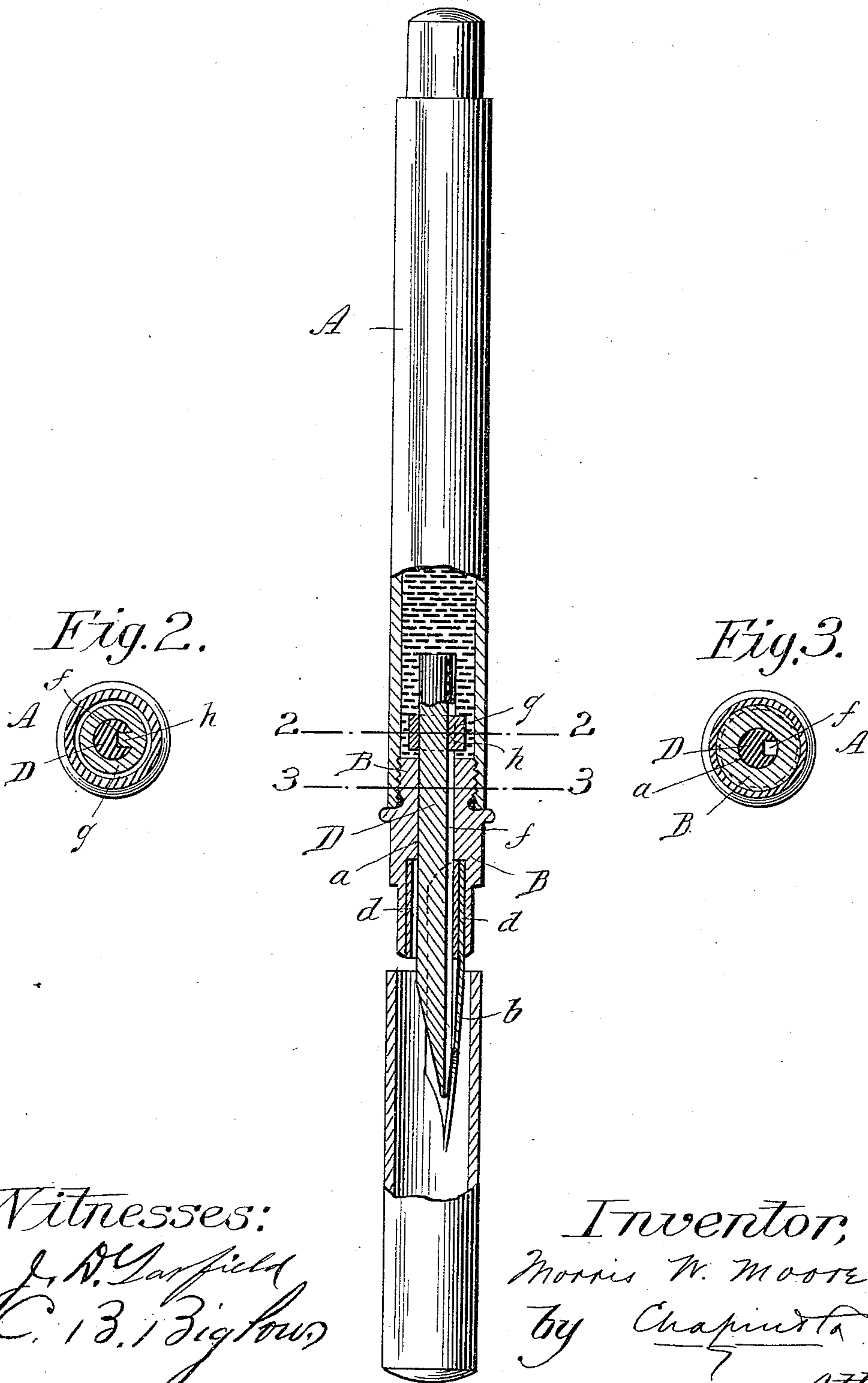
(No Model.)

M. W. MOORE.
FOUNTAIN PEN.

No. 448,885.

Patented Mar. 24, 1891.

Fig. 1.



Witnesses:
J. A. Tarfield
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UNITED STATES PATENT OFFICE.

MORRIS W. MOORE, OF SPRINGFIELD, ASSIGNOR, BY MESNE ASSIGNMENTS,
TO JOSEPH E. CHASE, OF HOLYOKE, MASSACHUSETTS.

FOUNTAIN-PEN.

SPECIFICATION forming part of Letters Patent No. 448,885, dated March 24, 1891.

Application filed September 17, 1890. Serial No. 365,242. (No model.)

To all whom it may concern:

Be it known that I, MORRIS W. MOORE, a citizen of the United States, residing at Springfield, in the county of Hampden and State of Massachusetts, have invented new and useful Improvements in Fountain-Pens, of which the following is a specification.

This invention in self-feeding fountain-pens particularly relates to the devices for regulating the flow of ink from the barrel or ink-reservoir to the pen; and the invention consists in the combination, with the pen-barrel provided with a tip having a passage longitudinally therethrough, of a feed-bar in said passage and extended into the chamber of the barrel and also forwardly to the pen having a longitudinal groove, and a valve consisting of a collar encircling and movable on said bar and provided with a tongue which fits within said feed-bar groove, all substantially as will hereinafter more fully appear.

In the drawings the present improvements in fountain-pens is illustrated, Figure 1 being an enlarged longitudinal sectional view of the fountain-pen, taken through the back of the writing-pen. Fig. 2 is a cross-section taken on the line 2 2, Fig. 1; and Fig. 3 is a cross-section taken on a line 3 3 of Fig. 1.

In the drawings, A represents the barrel and reservoir of the pen, usually constructed of hard rubber, the upper end of which is closed, and its opposite end is also closed by the tip B, which screws thereinto, being removable for the purpose of filling the reservoir with ink and to permit of the adjustment of the valve, as below described. The tip is provided longitudinally thereof with a passage *a*, which leads from end to end thereof, the outer extremity of the tip being chambered for the insertion of the pen *b* and the spring-bushing *d*, of cylindrical form, for retaining the pen by its shank in place in said chambered tip extremity. The feed-bar D is longer than said tip and extends through and closely fits and practically fills the longitudinal passage therein, its forward end extending to and upon the under side of the pen near its point, while the rear

end is projected above the tip into the reservoir. The feed-bar is grooved from above the place of its entrance into said passage through the tip, the said groove *f* extending along the tip to the under side of the pen, being open to the forward end of the feed-bar. Upon said feed-bar above the inner end of the tip is a valve, which consists of a collar *g*, adapted to encircle and slide on the bar, internally provided with a tongue or rib *h*, which fits the said feed-bar groove, forming, as it were, a gate or partition therein. It is apparent that if the said collar is slid down against the upper end of the tip there can be no ink-flow from the reservoir down the feed-bar groove through the tip to the pen, while the farther the internally-ribbed collar is slid away from the end of the tip the greater will be the freedom of ink-flow, the copiousness of such flow being very nicely regulated, according to the requirements of the writer.

I claim—

1. In a fountain-pen, the combination, with the reservoir-barrel provided with a tip having the writing-pen therein and with the longitudinal passage through same, of a feed-bar practically filling said passage and extended into the reservoir above the tip and also forward to a contact on the pen, having the longitudinal groove and valve consisting of a collar encircling and movable on said feed-bar and provided with a tongue which fits within said feed-bar groove, substantially as and for the purpose set forth.

2. A feeder for a fountain-pen, consisting of a bar having a groove therein and running longitudinally thereof to its forward end and a collar encircling and movable on the bar and provided with the tongue which fits said groove, substantially as described.

In testimony that I claim the foregoing as my invention I have hereunto set my hand in presence of two subscribing witnesses.

MORRIS W. MOORE.

Witnesses:

WM. S. BELLows,
ESTELLE TYLER.