

*W. Hunt,
Inkstand.*

No 4306.

Patented Dec. 11. 1845.

Fig. 4.

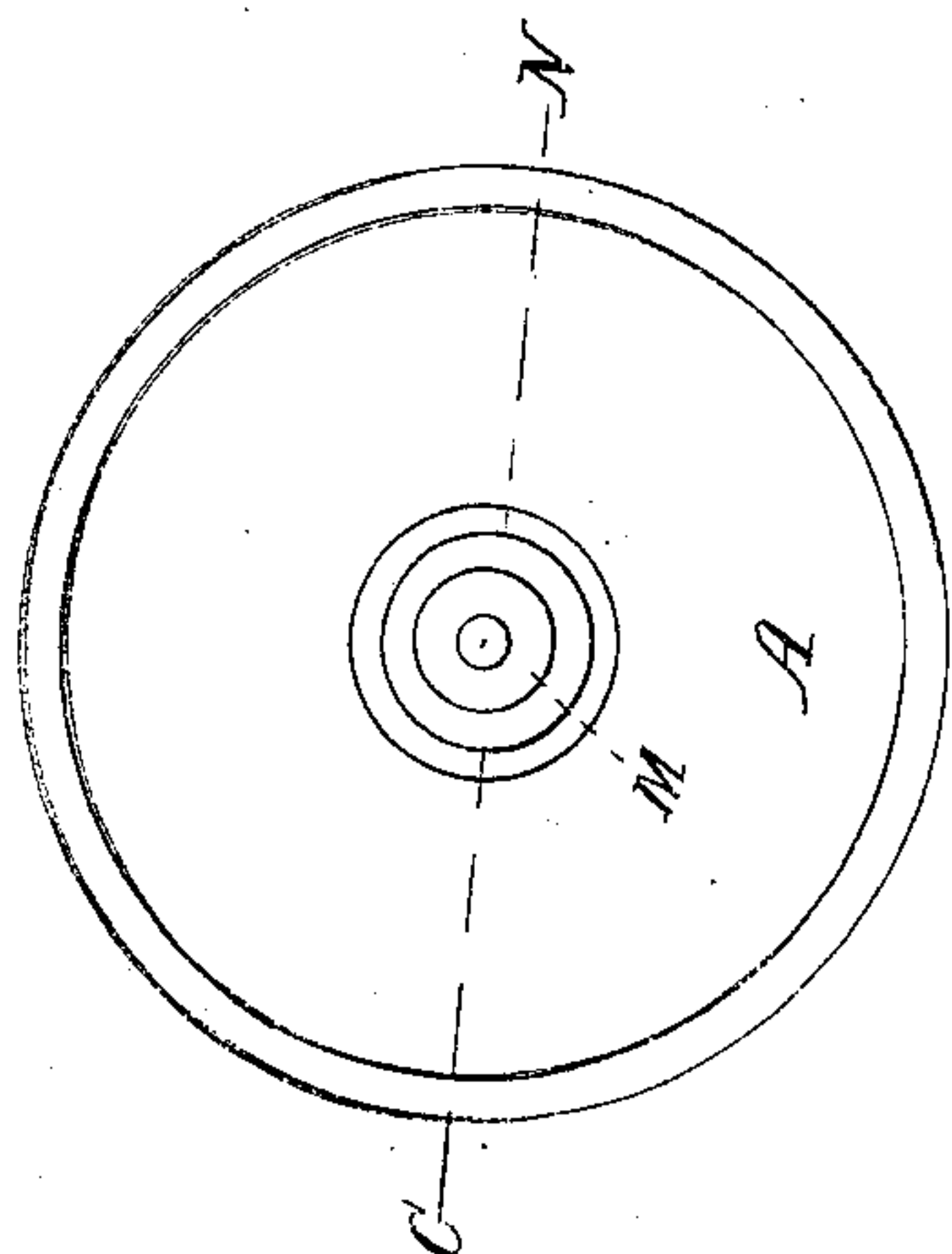


Fig. 2.

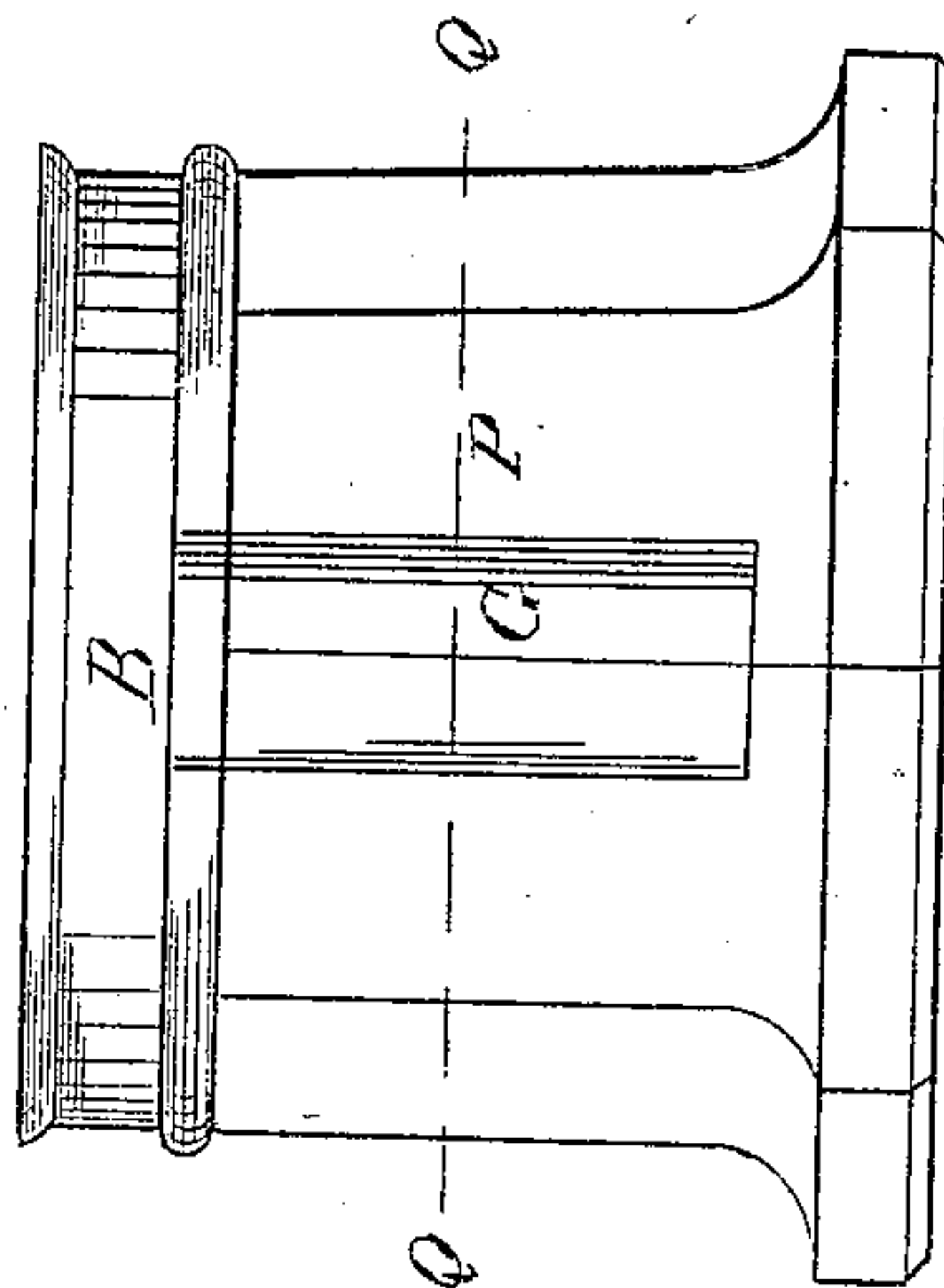


Fig. 1.

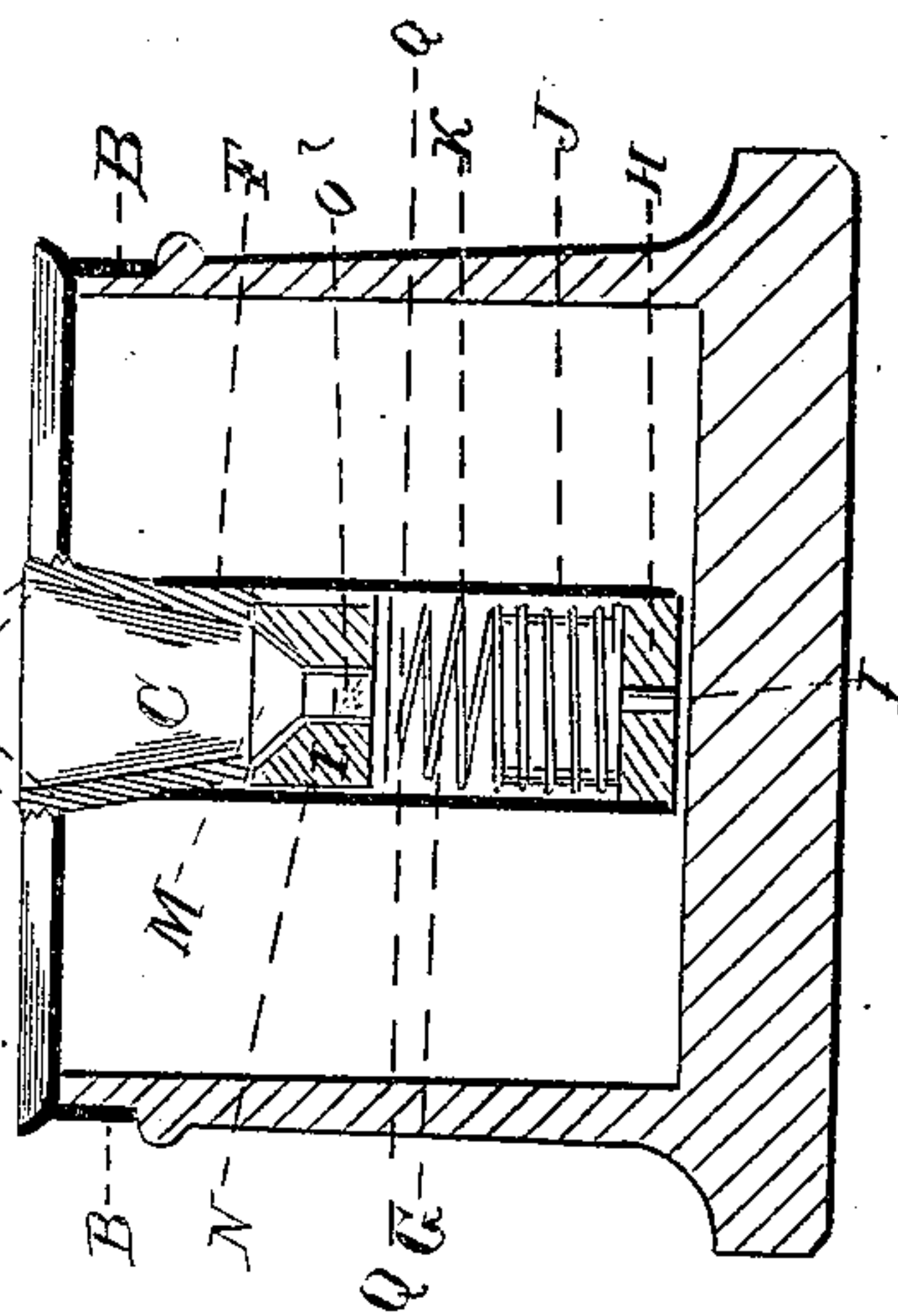
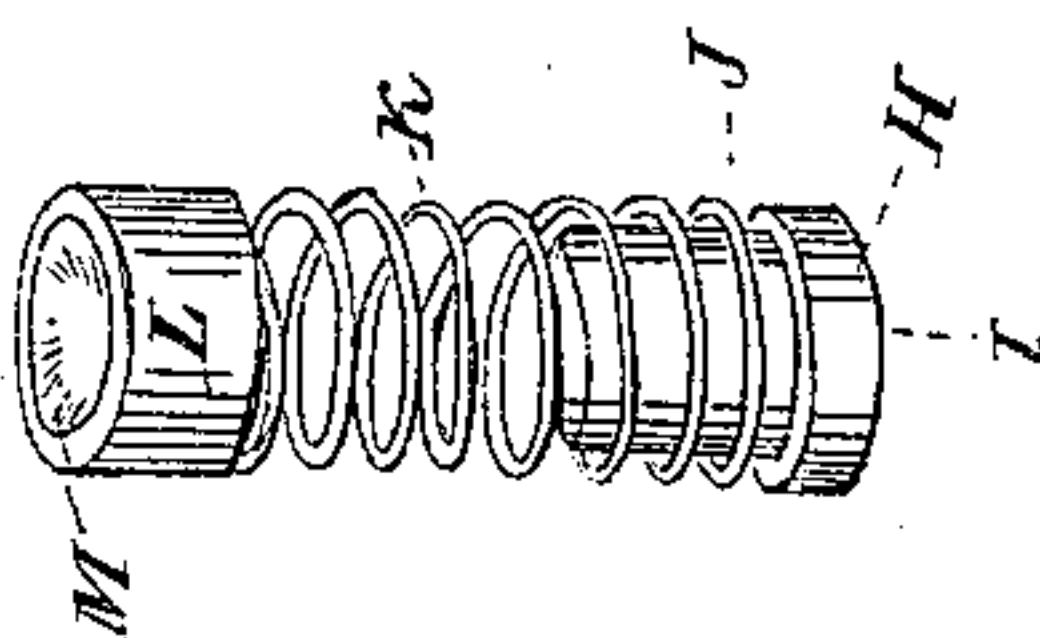


Fig. 3.



UNITED STATES PATENT OFFICE.

WALTER HUNT, OF NEW YORK, N. Y., ASSIGNOR TO GEORGE ARROWSMITH.

INKSTAND.

Specification of Letters Patent No. 4,306, dated December 11, 1845.

To all whom it may concern:

Be it known that I, WALTER HUNT, of the city, county, and State of New York, have invented a new Improvement in the
5 Construction of Filtering-Tubes to be Used and Connected with the Tops of Ordinary Inkstands, and that the following is a faithful description of the same.

Figure 1, in the annexed drawing, gives
10 an entire vertical cut section view of said top, ink-tube, and its appurtenances, as embraced in my plan with letters of reference to every material part thereof, as follows.

The metal top, or cover of the ink-stand
15 A, which is made with a circular flange B, to fit over the top rim of the ink reservoir in the usual manner.

The ink-tube C, which is funnel shaped, is screwed into said top at D, up against a
20 shoulder or projecting collar E, which is elevated above said top sufficiently to be controlled by the thumb and finger, as required. Said ink-tube projects down below said top about one-half of one inch,
25 upon which projection is fitted by a ferrule joint at F, the filter-tube G. In said filter-tube is contained at the bottom, a cork or stopper H with a small aperture I through it for the admission of the ink. Above said
30 stopper is inserted a piece of soft sponge or spongy substance J, but similar in form to a common cork, and which fills the caliber of said filter-tube about one-fourth of its length. Upon the top of said sponge, or
35 upon the said bottom H, rests a spiral spring K, (which should be made of silver or other material not affected by the ink) and of sufficient length when expanded, to extend from the bottom H, up to the ink-tube
40 C, and corresponding in its diameter across the coils with the inside of the filter-tube.

Upon the top of said spring K, is fitted a plunger L, (made of cork or otherwise) and which can be moved up and down freely
45 in said filter tube. The upper surface of said plunger is covered with a conical, or conical shaped cop M, firmly secured by cement, (or otherwise) upon the same. Said cop has a small opening N in its center
50 (see Fig. 4, top view) precisely similar to the common funnel, with the tube removed, which is only large enough to admit the nib of the pen in using. Concentric with said opening, is one of similar diameter through
55 said plunger, in which is inserted a small

piece of sponge as shown at O, which prevents a sudden jet of the ink when the pen is introduced, and also allows the ink to subside gently, when the pen is withdrawn, while at the same time it excludes the at-
60 mosphere from the ink in the filter-tube below.

Fig. 2, exhibits an elevated view of the ink-stand entire, with the filter-tube G, as
65 seen through the glass stand or reservoir P.

Fig. 3, gives an elevated perspective view of the contents of the filter-tube G, viz: the
bottom H, with the aperture I; the coiled spring K, the sponge J, the funnel-top M, and the plunger L.
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The operation, mode of using, and advantages of the above described arrangement are obvious. Suppose the stand to be filled with ink as usual, say to the line Q
75 Fig. 2, it would find a similar level through the orifice I, in the filter-tube bottom, or if it was far below said line, provided it reach the bottom of the sponge J, said sponge would continue saturated to its upper ex-
80 tremity; consequently when the spring is forced down by the pen pressing upon the funnel M, (the orifice I being very small) the ink would be forced up around, and through the orifice in the plunger L, and flow into the funnel above, and around the point of
85 the pen, which being filled and withdrawn, would allow the plunger, &c., to rise with the spring, pressing the funnel against the bottom of the ink-tube, and the ink to recede below as before described. The advantages
90 of this plan, in the exclusion of the atmosphere and security in upsetting. &c., are equal to, if not greater than in other plans previously invented by myself, and others. The facility of cleaning both the stand and
95 the contents of the filter-tube, by unscrewing the ink-tube, I think, renders the use and management of this plan simple and effective.

My claims in the above described inven-
100 tion, are confined to the filter-tube in combination with the funnel, plunger, spring, sponge, and perforated bottom, arranged substantially in the manner, and for the purposes, hereinabove described.

New York Sept. 12th, 1845.

WALTER HUNT.

Witnesses:

T. JAMES GLOVER,
JNO. R. CHAPIN.