

(No Model.)

J. B. ARCHIBALD.  
INKSTAND.

No. 440,254.

Patented Nov. 11, 1890.

Fig. 1.

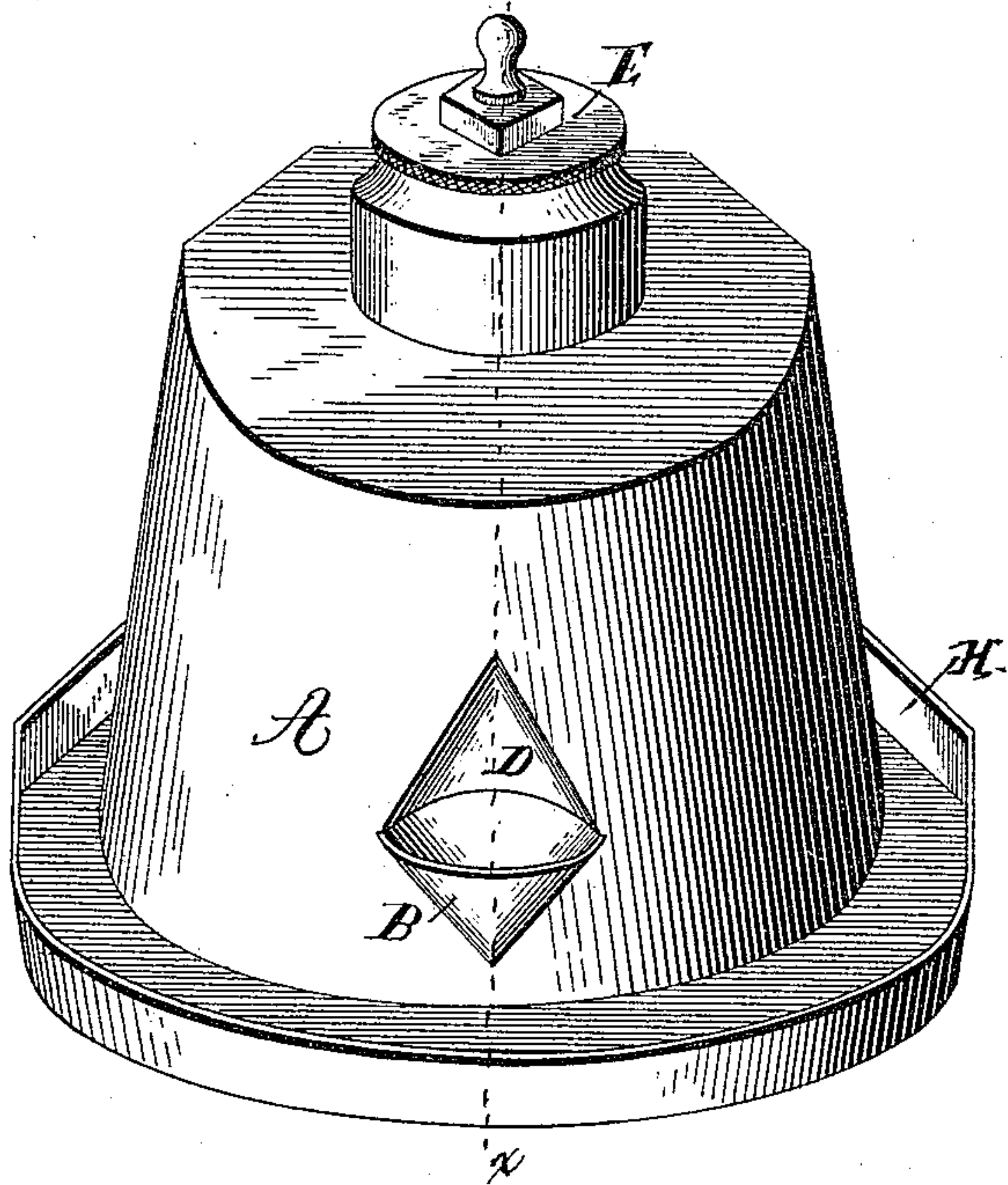


Fig. 2.

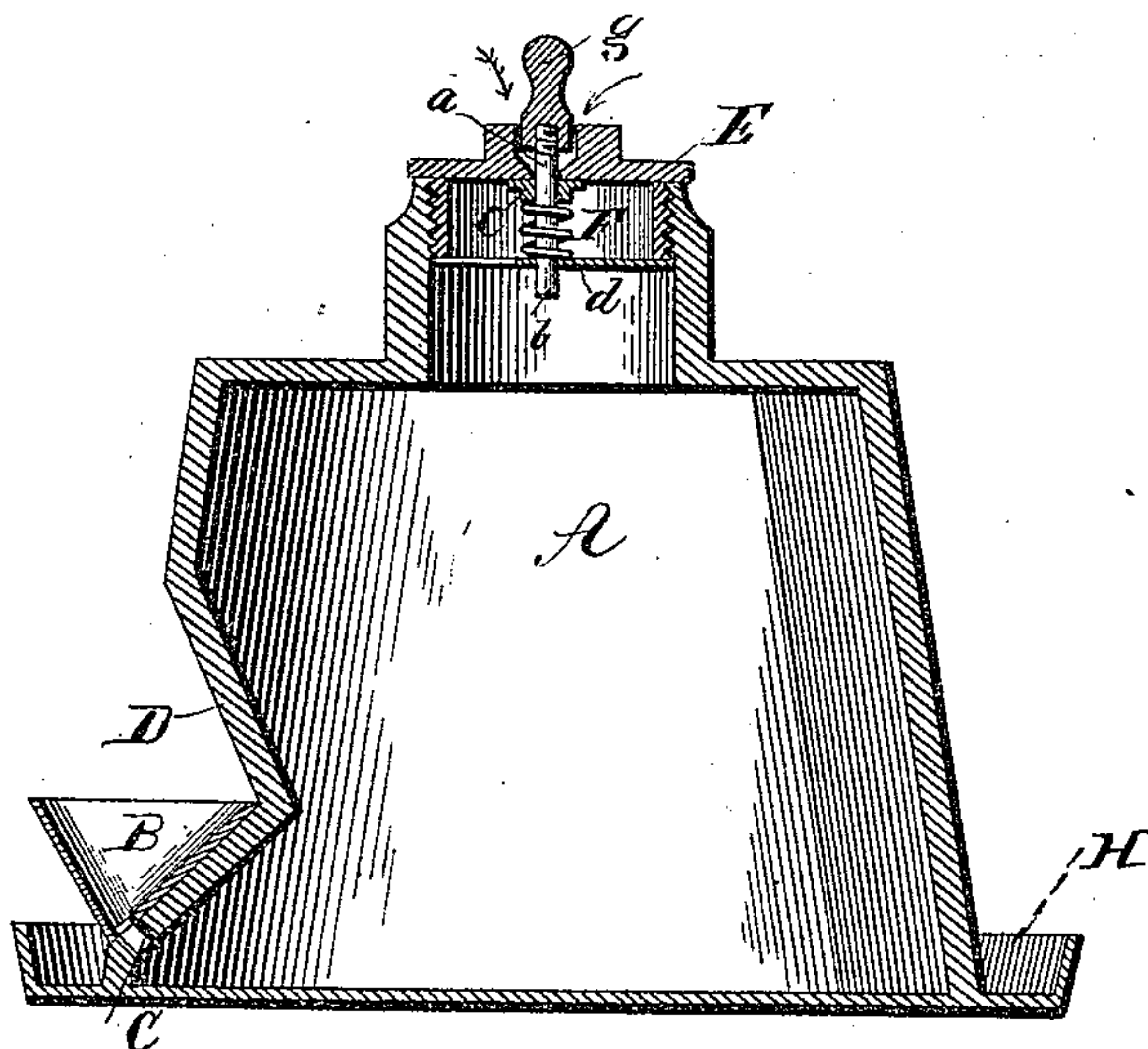
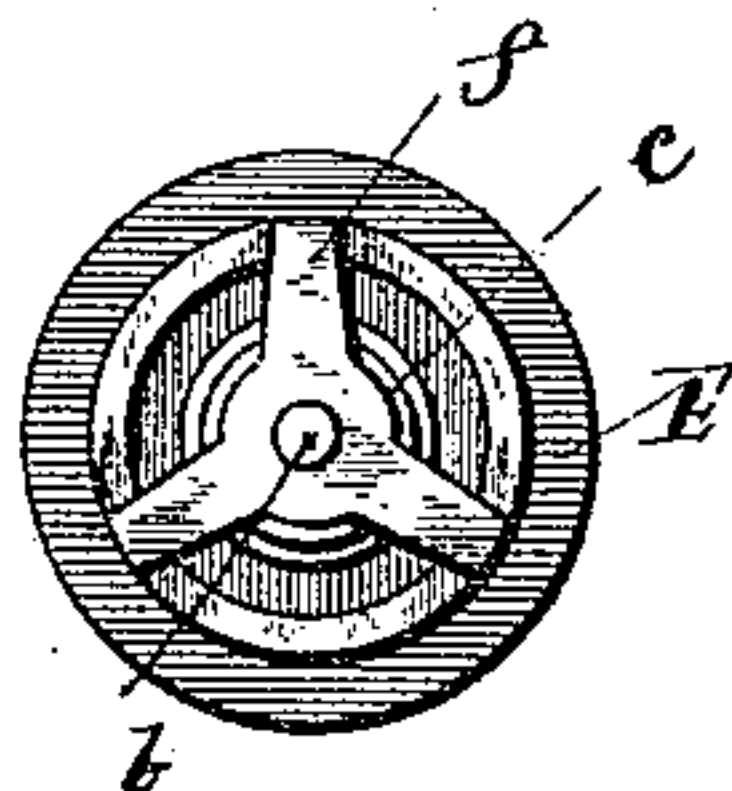


Fig. 3.



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# UNITED STATES PATENT OFFICE.

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## INKSTAND.

SPECIFICATION forming part of Letters Patent No. 440,254, dated November 11, 1890.

Application filed March 10, 1890. Serial No. 343,253. (No model.)

*To all whom it may concern:*

Be it known that I, JABEZ B. ARCHIBALD, a citizen of the United States, residing at Lincoln, in the county of Lancaster and State of Nebraska, have invented new and useful Improvements in Inkstands; and I do hereby declare the following to be a full, clear, and exact description of said invention, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

My invention relates to new and useful improvements in inkstands, and especially to that class in which the ink is fed from a reservoir or dome to a dipping-cup.

The object of my invention is to provide an inkstand consisting of a dome or reservoir for containing a quantity of ink, and having near its base a small dipping-cup into which the ink can be fed by the admission of air in the top of the dome or reservoir as it is desired.

The invention consists in the construction of a dome provided with a cup near its base, said cup communicating with the dome or reservoir by means of a small aperture, and the top of said dome provided with means for the admission of air to the reservoir, thus allowing the ink to be fed from the dome or reservoir to the dipping-cup as desired.

The invention further consists in the novel construction of the removable top, which is provided with an aperture and closed by the continued pressure of a spring acting on a diaphragm and opened by the compression of the spring by exerting pressure on a plug connecting therewith through the opening; and the invention also consists in the novel construction and arrangement of parts, all as hereinafter explained.

Referring to the drawings, Figure 1 is a view in perspective of my improved inkstand. Fig. 2 is a sectional view taken on the line  $xx$  of Fig. 1. Fig. 3 is a bottom view of the cap or cover having the valved opening therein.

The dome A, forming the reservoir for holding and protecting the ink from evaporation, is made of any suitable material and of any useful or ornamental construction.

Near the base of the dome A is provided the cup B, which communicates with the interior of the dome through a small aperture C, and through which the ink is fed to the

dipping-cup by the admission of air in the top of the dome. Ordinarily the ink, which is held by the vacuum formed in the top of the dome by its own weight, feeds itself when the ink becomes so low as to allow the admission of air through the liquid; but the present device, in making the aperture small, does not rely on the admission of air from the dipping-cup to feed the ink thereto, which must necessarily become very low before it can be replenished of itself, but provides a valve in the top of the dome A, by which the vacuum can be diminished by the admission of air, and thus allowing a regulated quantity of ink to flow into the dipping-cup B, and bringing about the same condition in the dome as existed before.

As shown in the drawings, the dome A is made with a diamond-shaped concavity D on its outer surface, into which is secured the funnel-shaped cup B, and while this is a desirable form, yet any other construction embracing this principle of arrangement may serve as well.

The cap or cover E, with which the top of the dome A is provided, is screw-threaded and adapted to be removed for filling the dome with ink, and when this operation is being performed the aperture C in the dipping-cup must be closed until the cover is replaced. The under portion of the screw cap or cover is provided with a circular recess F, having the air-inlet opening  $a$ , extending through the cap and opening into the recess on the upper portion of the cap. Through the air-inlet  $a$  extends a bar or rod  $b$ , which loosely fits into the hole and has secured to it near its center a diaphragm or disk  $c$ , with preferably an upper face of rubber, said disk  $c$  being held against the under side of the cap around the air-inlet hole  $a$  by the spring  $d$ . This spring is coiled around the rod  $b$  and finds its lower support on the spider  $f$ , which is secured over the recess and to the top. The upper portion of the rod  $b$ , extending through the air-inlet hole, is provided with the plug  $g$ , which fits loosely into the recess in the upper portion of the cap, and by which the valve-disk  $c$  is displaced for the admission of air when it is necessary to add more ink to that in the cup. The cap or cover E is also provided with a square or other shaped projection on its top

by which a wrench can be applied for tightening or removing the cover.

The pan or receptacle H, which I show as attached to my inkstand, may be dispensed with; but I prefer to combine this feature, as it offers at all times a protection to the desk from the ink in more ways than one.

What I claim is—

1. An inkstand consisting of a dome or reservoir having near its base a dipping-cup, said dome or reservoir being normally closed at its top by a valve and adapted to hold the liquid by means of the vacuum formed therein and to feed the same to the dipping-cup by the admission of air through said valve, substantially as set forth.

2. In an inkstand, the cap or cover adapted to fit the upper portion of the dome, having a central air-inlet opening therein and provided with a rod extending through said opening, said rod being provided with a disk or diaphragm on the under side of the cover and normally held against the opening by a spring below said disk and supported by a suitable bar or cross-head, substantially as set forth.

In testimony whereof I affix my signature in the presence of two subscribing witnesses.

JABEZ B. ARCHIBALD.

Witnesses:

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A. G. GREENLEE.