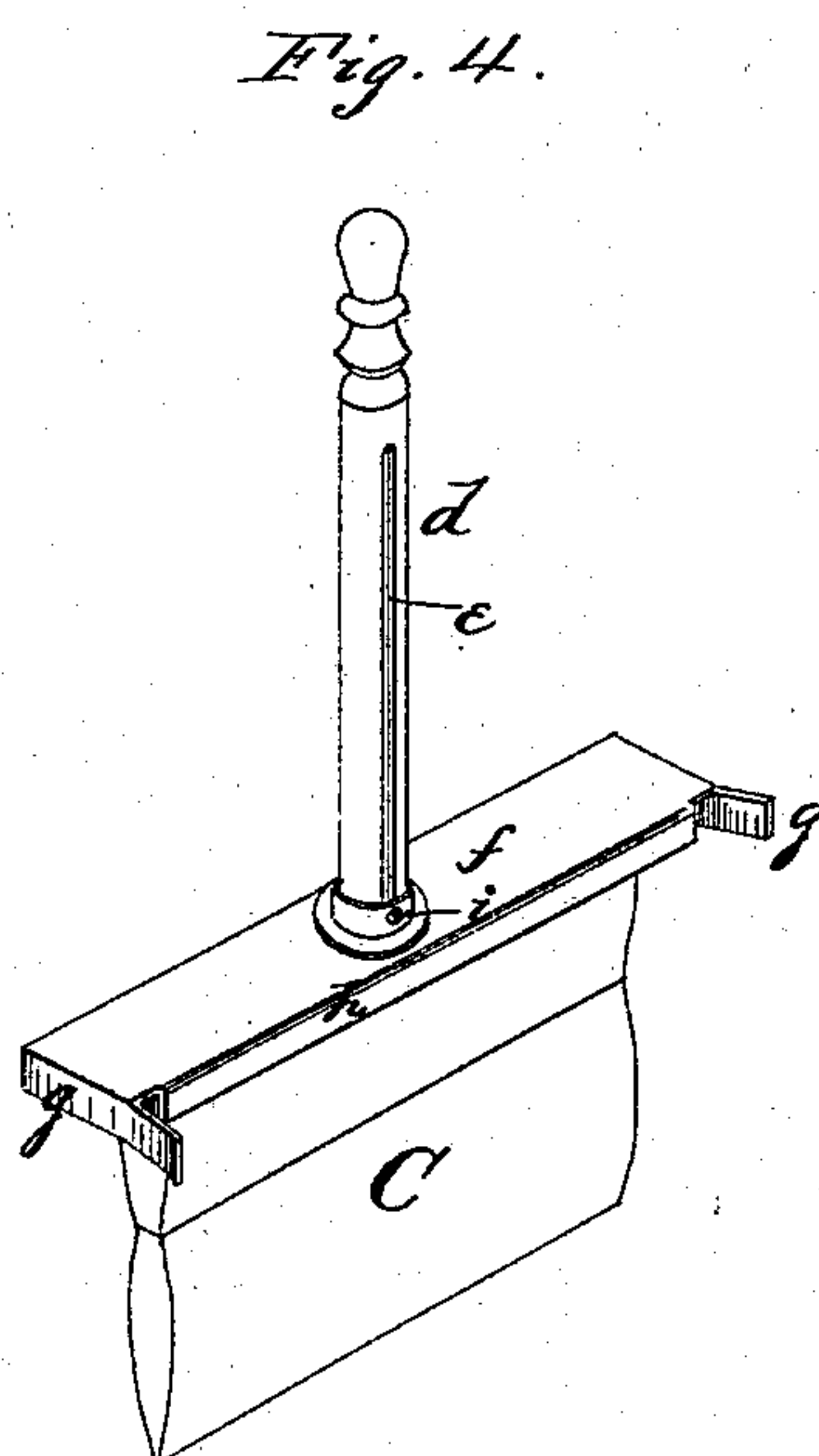
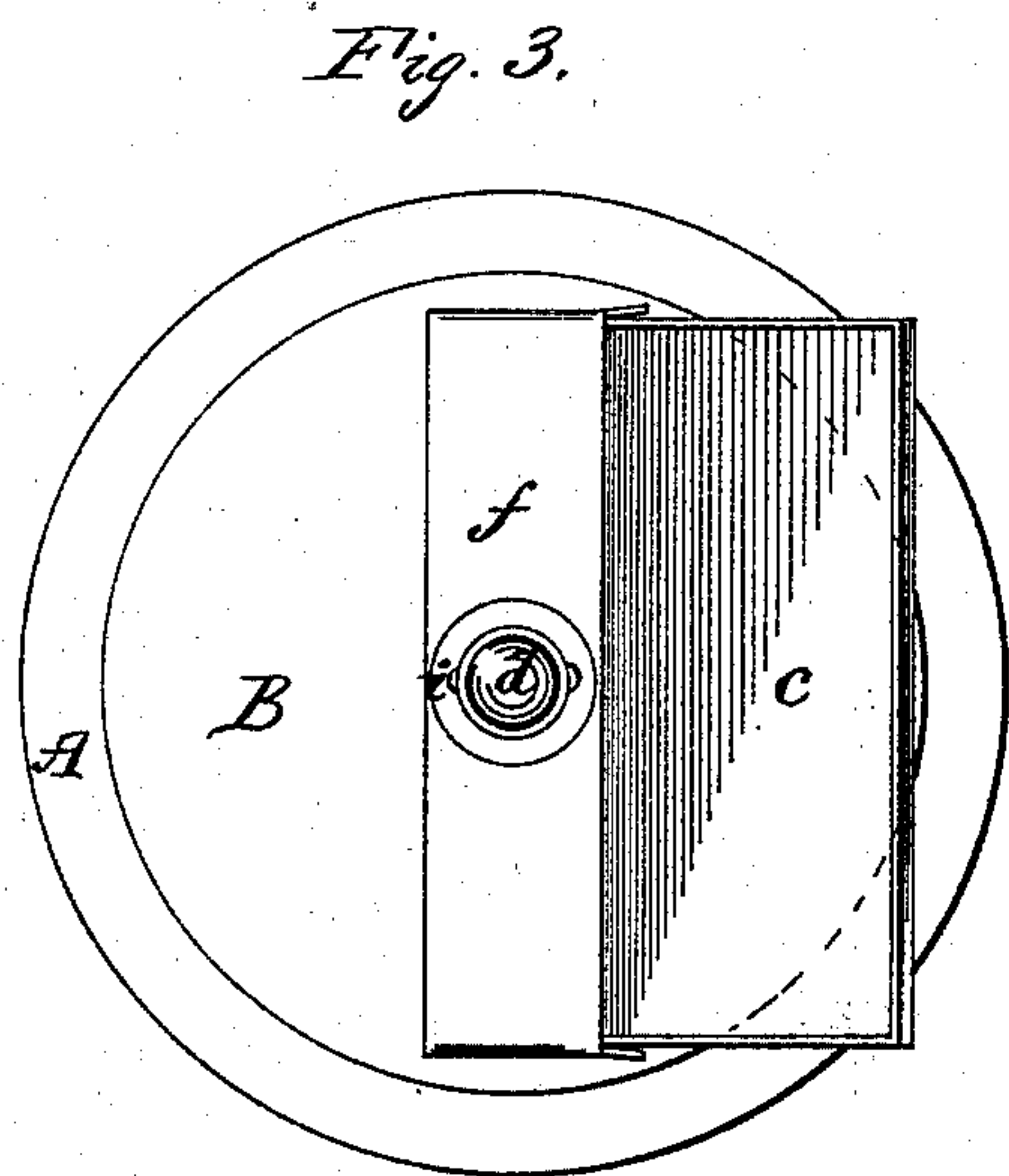
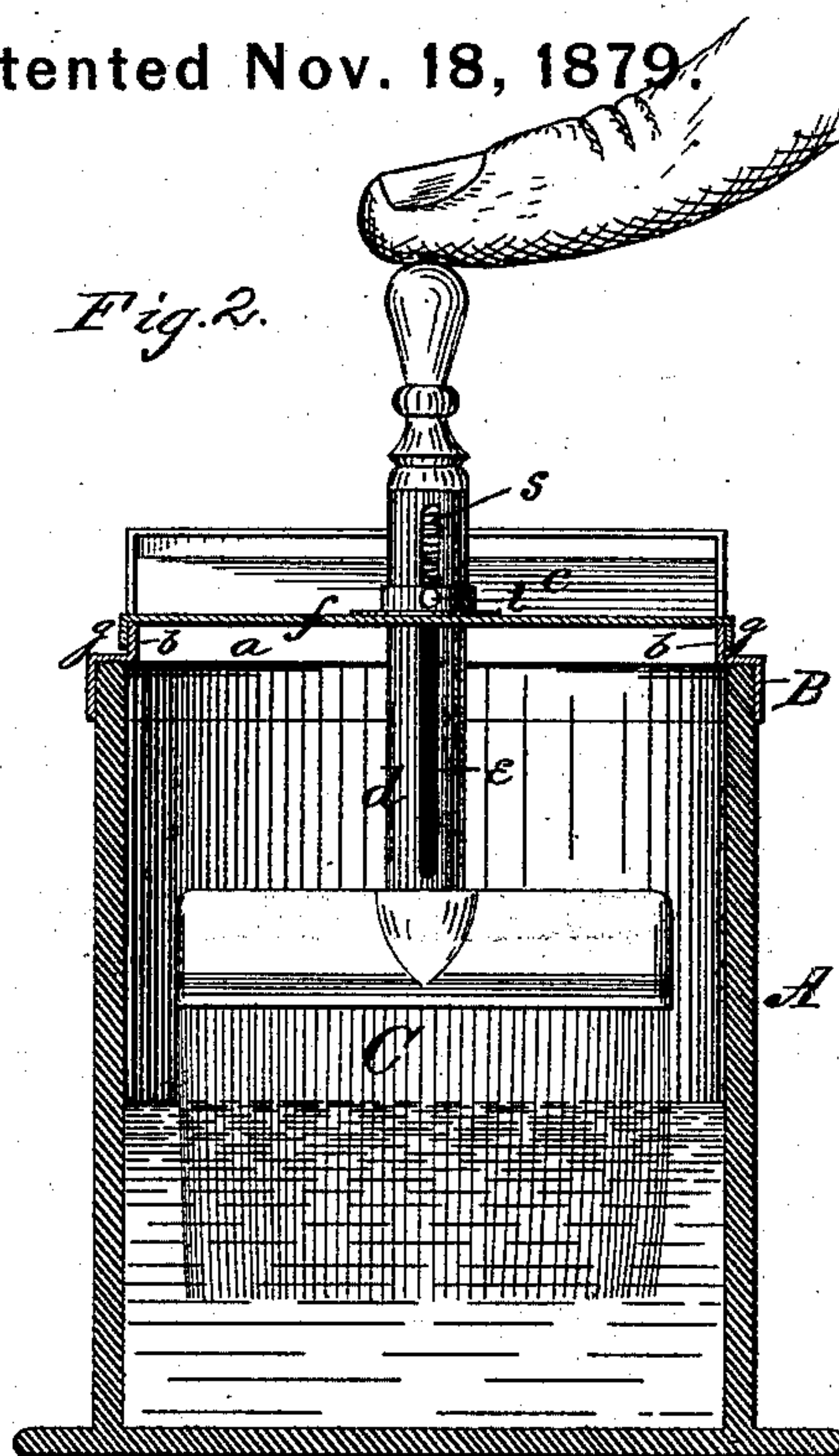
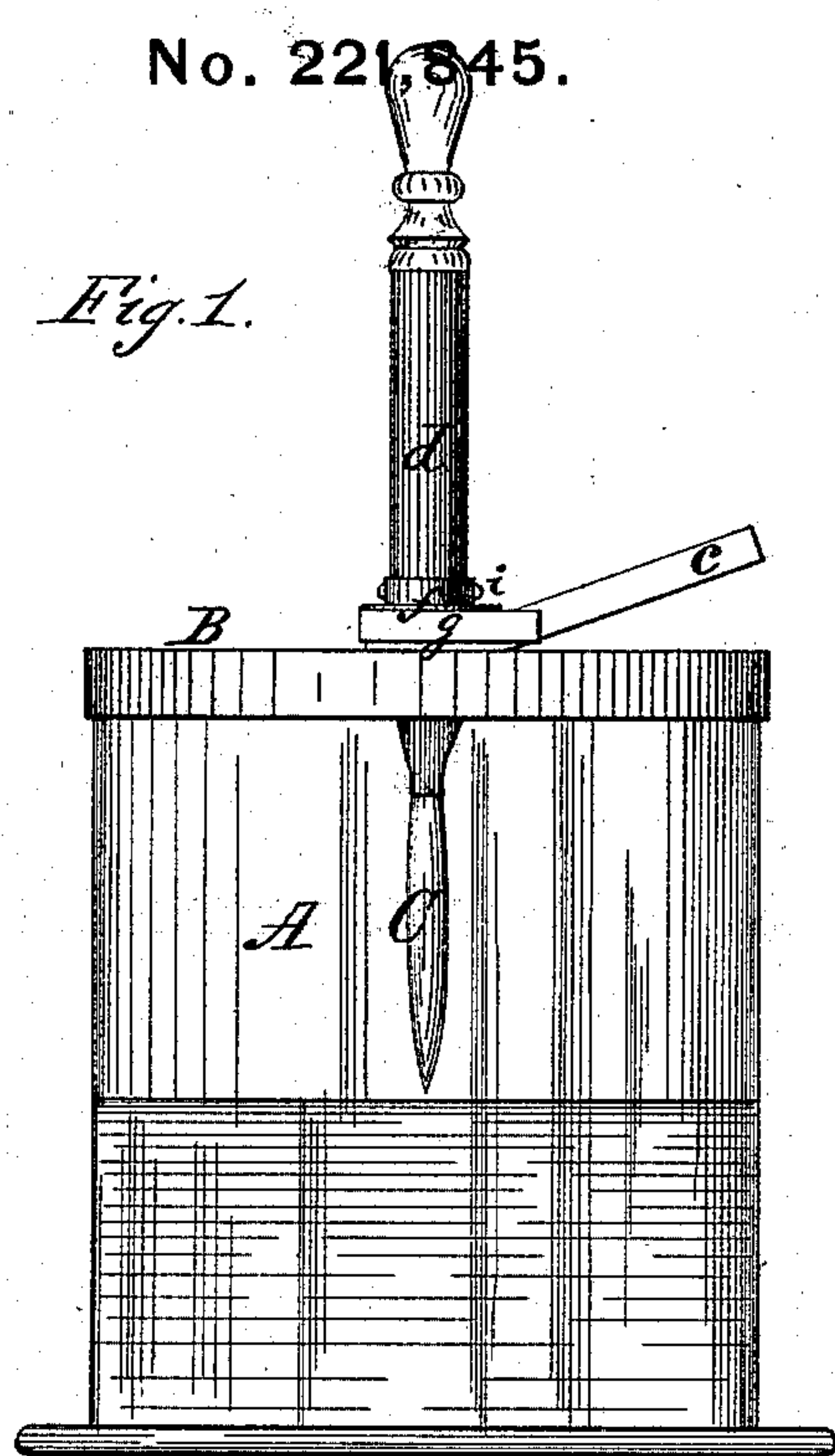


J. MILLER.  
Water Wells and Brushes for Copying.  
No. 221,845. Patented Nov. 18, 1879.



Witnesses.  
J. A. Collocky.  
G. Smith.

John Miller, Inventor  
by Connelly, Bond & W. Highe  
Attorneys



# UNITED STATES PATENT OFFICE.

JOHN MILLER, OF PITTSBURG, PENNSYLVANIA.

## IMPROVEMENT IN WATER-WELLS AND BRUSHES FOR COPYING.

Specification forming part of Letters Patent No. **221,845**, dated November 18, 1879; application filed July 15, 1879.

*To all whom it may concern:*

Be it known that I, JOHN MILLER, of Pittsburg, in the county of Allegheny and State of Pennsylvania, have invented certain new and useful Improvements in Water-Wells and Brushes for Copying-Presses; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it pertains to make and use it, reference being had to the accompanying drawings, which form part of this specification, in which—

Figure 1 is a side elevation; Fig. 2, a transverse vertical section of Fig. 1. Fig. 3 is a plan view, and Fig. 4 is a perspective of the brush and cap.

My invention relates to the construction of water-wells and brushes for copying-press purposes; and it consists in the construction and combination of devices, substantially as hereinafter fully described and claimed.

In the drawings, A designates a glass vessel, which may be of the shape shown or any other suitable design. This is partially filled with water, as seen. On its top I place a cover, B, which has a transverse opening or slit, *a*, surrounded on all sides by a lip, *b*, except one, where it opens onto an inclined apron, *c*. The slit *a* is a little larger than the brush to be used. The brush C has a hollow handle, *d*, which is slotted, as at *e*, and holds a spiral spring, *s*, within. The handle *d* passes through a sheet-metal cap, *f*, which is slightly larger than the opening *a* in the cover, and has the downwardly-turned flanges *g*, as shown, and the overhanging portion *h*, which fills the space left at the apron. A pin, *i*, passes from the cap through the hollow handle *d*, and bears against the free end of the spring *s*.

The operation is as follows: When not in use the brush is held in the position shown by Fig. 1. The cap *f*, with its flanges *g* and lip *h*, completely excludes all dirt, dust, and insects from the water within the vessel, keeping it always perfectly clean, and at the same

time serves to support the brush in a perpendicular position, thus preserving the hairs straight and the edge true. Normally the lower edge of the brush is held a little above the water. To use the brush I simply press slightly upon the handle. The brush is lowered into the water, and absorbs a supply, after which the brush and cap *f* may be lifted out. If too much water be in the brush, the surplus may be removed by drawing the brush over the lip at the top of the inclined apron, when the surplus at once returns to the vessel A.

In this manner the brush is always preserved in perfect condition, always ready to be at once dipped down in the water, and always in its place. It is not exposed to flying dust, and is not liable to be tipped off on the floor. The water is kept clean and pure, and no dust can get at it. The construction is cheap and simple, and altogether the device is admirably adapted to the purposes for which it is intended.

The vessel A is described as having been made of glass; but I do not confine myself to any material in particular, as it may be terracotta, sheet metal, wood, or cast metal, or in fact any suitable substance.

By obvious modifications, such as a change in the form of the brush and the cap, the invention is applicable also to such uses as mucilage-holders and marking-pots. In such cases the inclined apron might be dispensed with, if desired, and the spring-handle and cap preserved.

I claim as my invention—

The combination, with the vessel A, of the cover B, slitted as shown, and brush C, handle *d*, spring *s*, and cap *f*, substantially as described.

In testimony that I claim the foregoing I have hereunto set my hand.

JOHN MILLER.

Witnesses:

ALEXANDER MOORE,  
T. J. MCTIGHE.