R. Gleason Jr.

Inkstand.

No. 14,451. Patented Mar. 18, 1856.

Fig. 1.

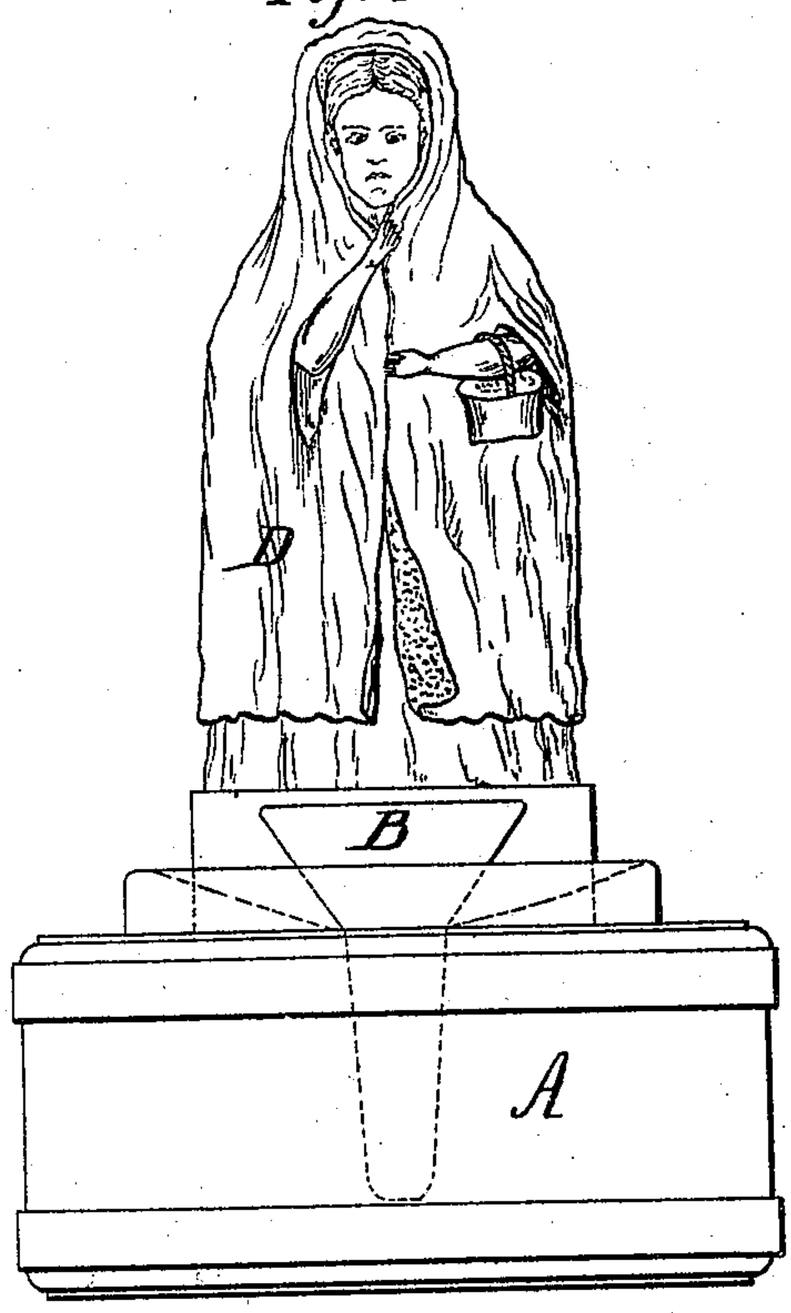


Fig. 3.

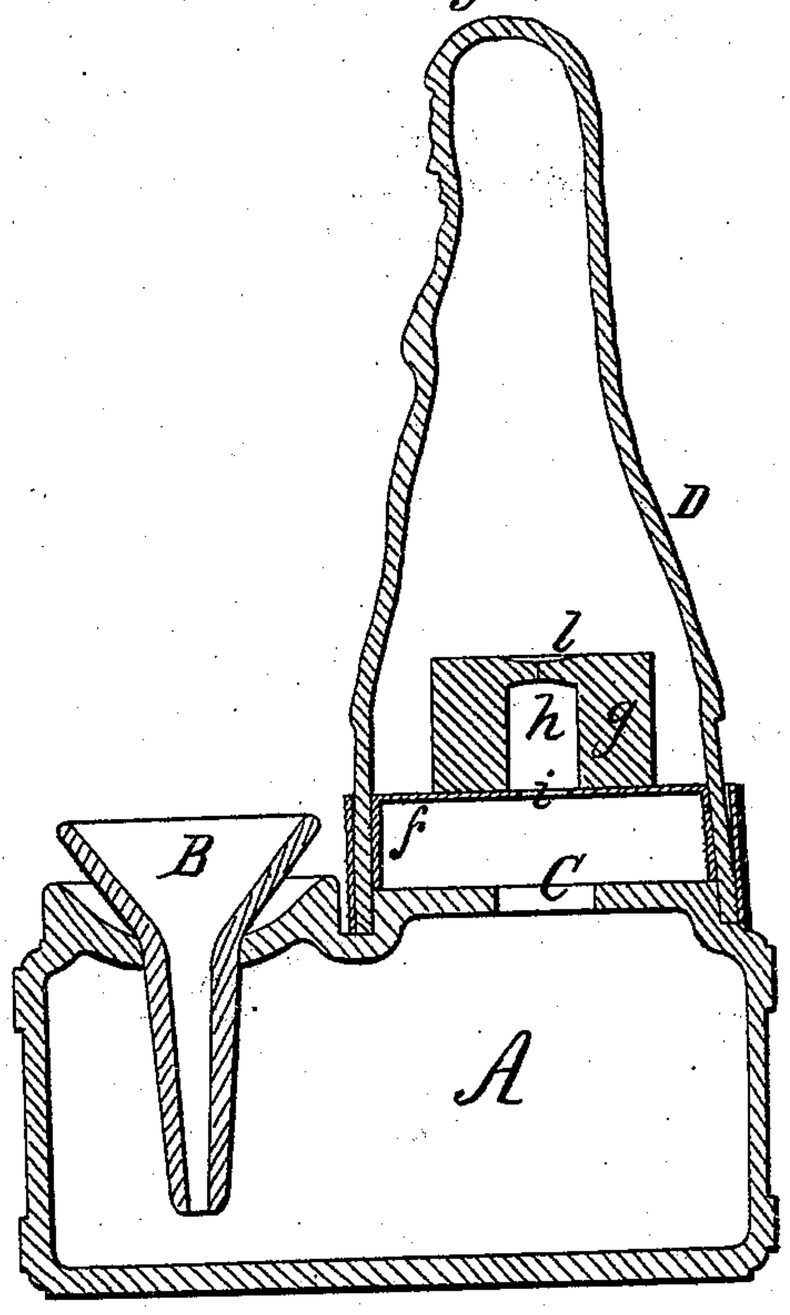


Fig. 4.

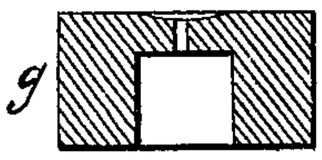


Fig. 5.

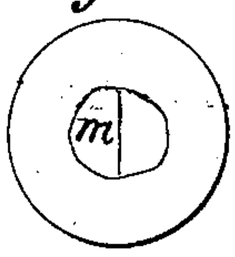


Fig. 6.

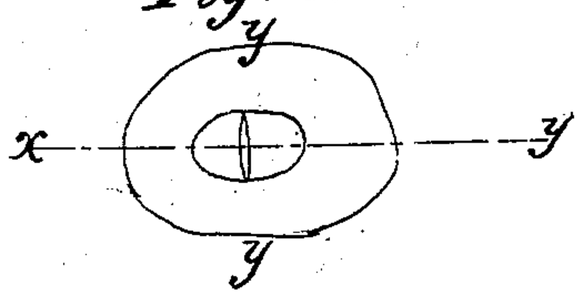
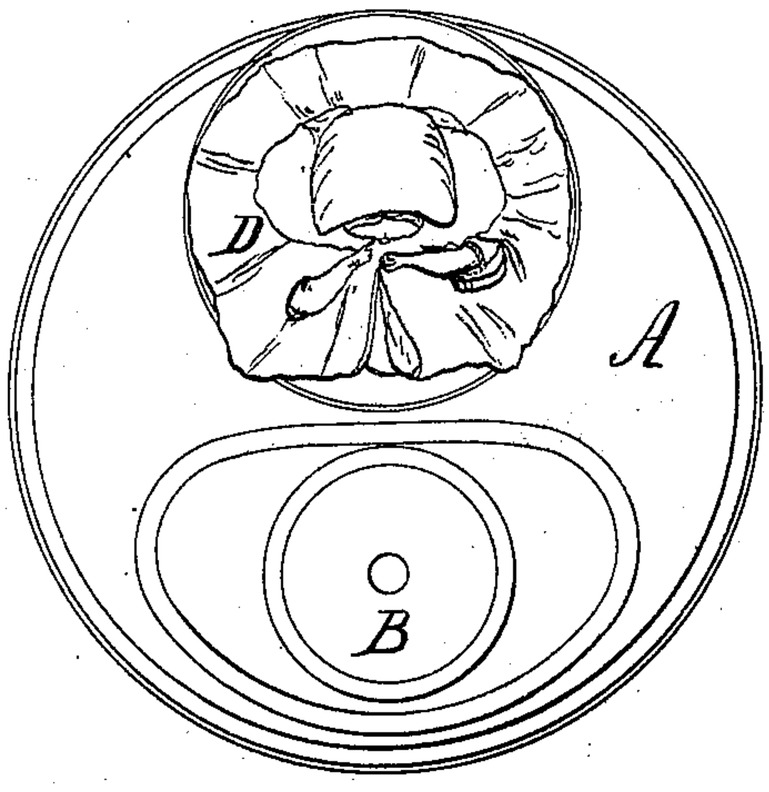


Fig. 2.



UNITED STATES PATENT OFFICE.

R. GLEASON, JR., OF DORCHESTER, MASSACHUSETTS.

INKSTAND.

Specification of Letters Patent No. 14,451, dated March 18, 1856.

To all whom it may concern:

Be it known that I, R. GLEASON, Jr., of Dorchester, in the county of Norfolk and State of Massachusetts, have invented certain new and useful Improvements in Inkstands, of which the following is a full, clear, and exact description, reference being had to the annexed drawings, making part of this specification, in which—

Figure 1 is a view of an inkstand with my improvements attached; Fig. 2, a plan; Fig. 3, a vertical section through the same; Figs. 4, 5, and 6, details which will be referred to hereafter.

My invention is applied to that species of inkstand known as fountain inkstands, in which the ink is forced up into the cup by compressing the air within the stand, and my invention consists in attaching to an opening in the inkstand a hollow image, globe, or other article, which when subjected to pressure shall compress the air within the stand and force up the ink as required, the air being prevented from leaving the interior of the stand by a suitable valve or by containing the pressure upon the hollow image or globe.

To enable others skilled in the art to make and use my invention, I will proceed to describe the manner in which I have carried it out.

In the accompanying drawings A, is the inkstand; B, the funnel or cup into which the ink is to be-forced; D, a hollow image of india rubber attached with an air tight joint to the inkstand over an opening C, in its top. If now the image be subjected to pressure in any way so as to drive the air which it contains into the inkstand, the ink will be forced into the cap B, as required.

There are various methods by which the air may be prevented from returning to the image until desired, for instance the image may be bent over to one side and confined in the position by a hook or otherwise, until it is desired to return the ink into the inkstand. The method however which I prefer for the purpose is by the use of a valve of peculiar construction which I will proceed to describe.

f, is a metal cap secured to the image D, and to the top of the inkstand with an air tight joint.

i, is a hole in the center of this cap over which is secured the block of india rubber *g;* this block has a hole *h*, of the size represented in the drawings, passing nearly through it, the portion *l*, being perforated with a narrow slit *m*, (Fig. 5,) which closes of itself air tight, but which may be opened as in Figs. 4, and 6, by pressure at the points *y*, *y*.

Operation: When it is desired to force the ink from the stand into the cup, B, pressure is applied by the hand to the body of the image above the valve, and a portion of air is then forced into the inkstand, where it is retained by the valve in the block *g*. When it is requested to drop the ink again into the inkstand, pressure is applied to the image lower down so as to compress the valve as in Figs. 4 and 6, without diminishing the size of the image, when the air is allowed to return from the stand to the interior of the image, and the ink again descends into the inkstand.

What I claim as my invention and desire to secure by Letters Patent is—

The use of the hollow elastic body operating in the manner set forth, in combination with the peculiar valve employed for the purpose of retaining the ink within the cup as set forth.

R. GLEASON, JR.

Witnesses:

THOS. R. ROACH,

T. E. TESCHEMACHER.