

R. Gleason Jr. Inkstand.

No 14,451.

Patented Mar 18, 1856.

Fig. 1.

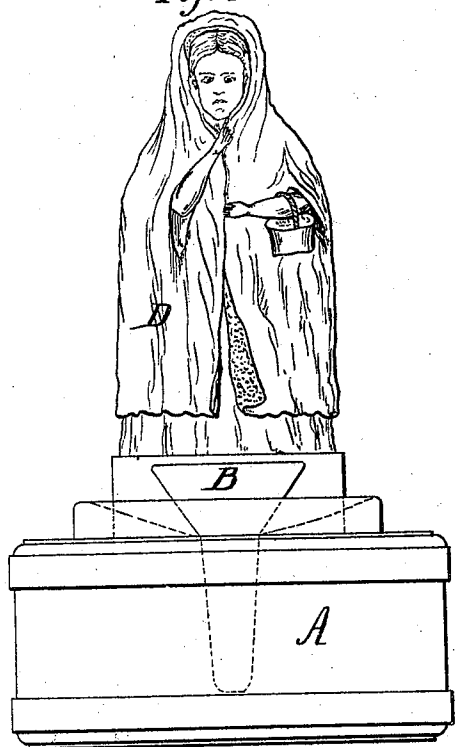


Fig. 3.

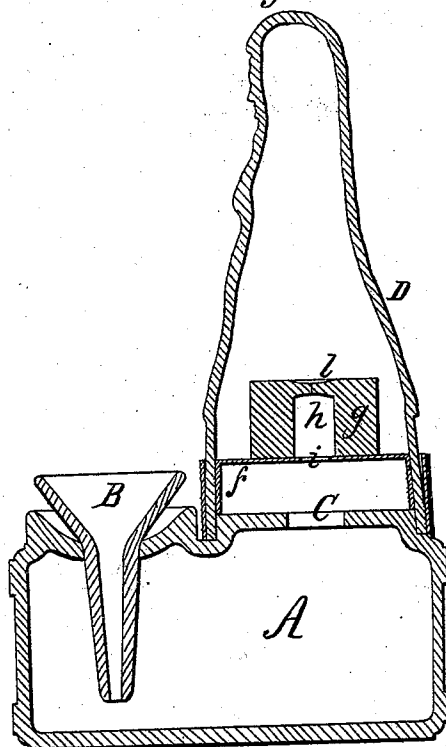


Fig. 4.



Fig. 5.

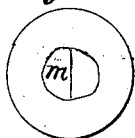


Fig. 6.

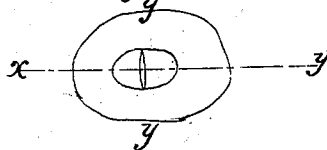
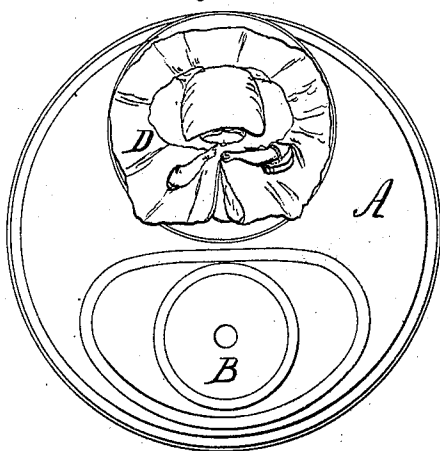


Fig. 2.



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 cer-
tain new and useful Improvements in Ink-
stands, 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 re-
ferred 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 sub-
jected to pressure shall compress the air
within the stand and force up the ink as re-
quired, the air being prevented from leav-
ing 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 ink-
stand. The method however which I prefer
for the purpose is by the use of a valve
of peculiar construction which I will pro-
ceed 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 repre-
sented 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, pres-
sure 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 diminish-
ing the size of the image, when the air is
allowed to return from the stand to the in-
terior of the image, and the ink again de-
scends into the inkstand.

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

The use of the hollow elastic body op-
erating in the manner set forth, in combina-
tion 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.