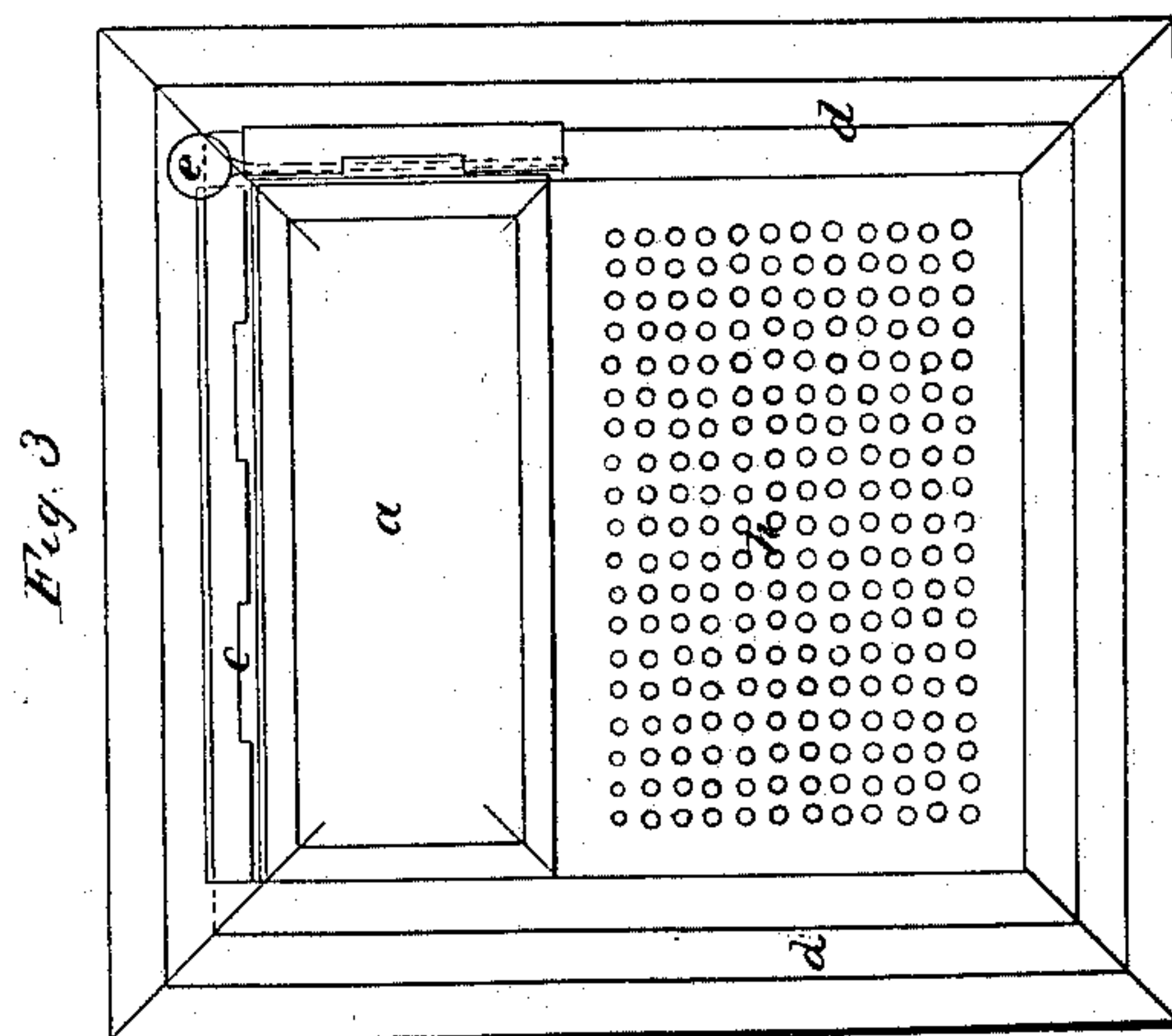
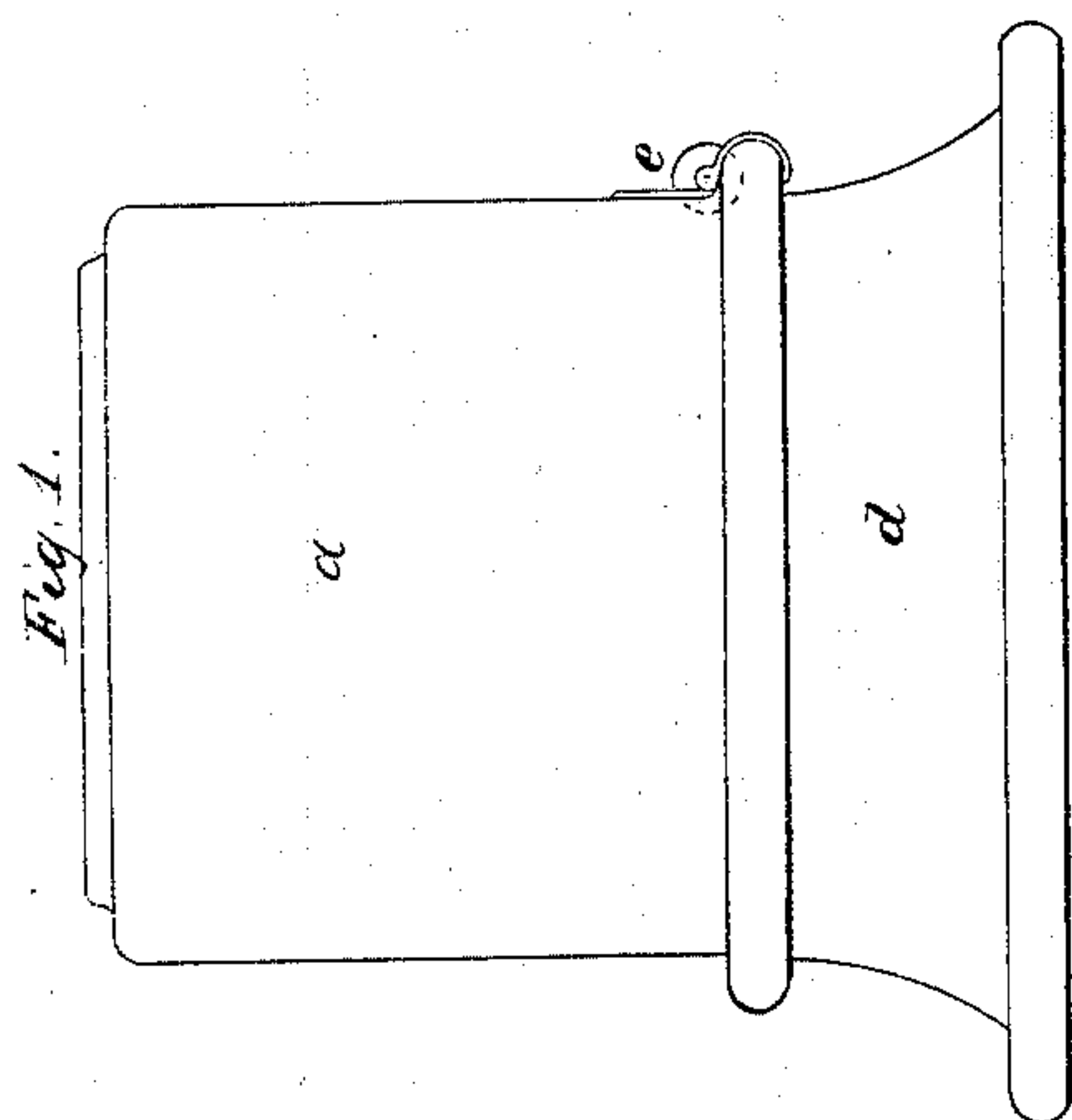
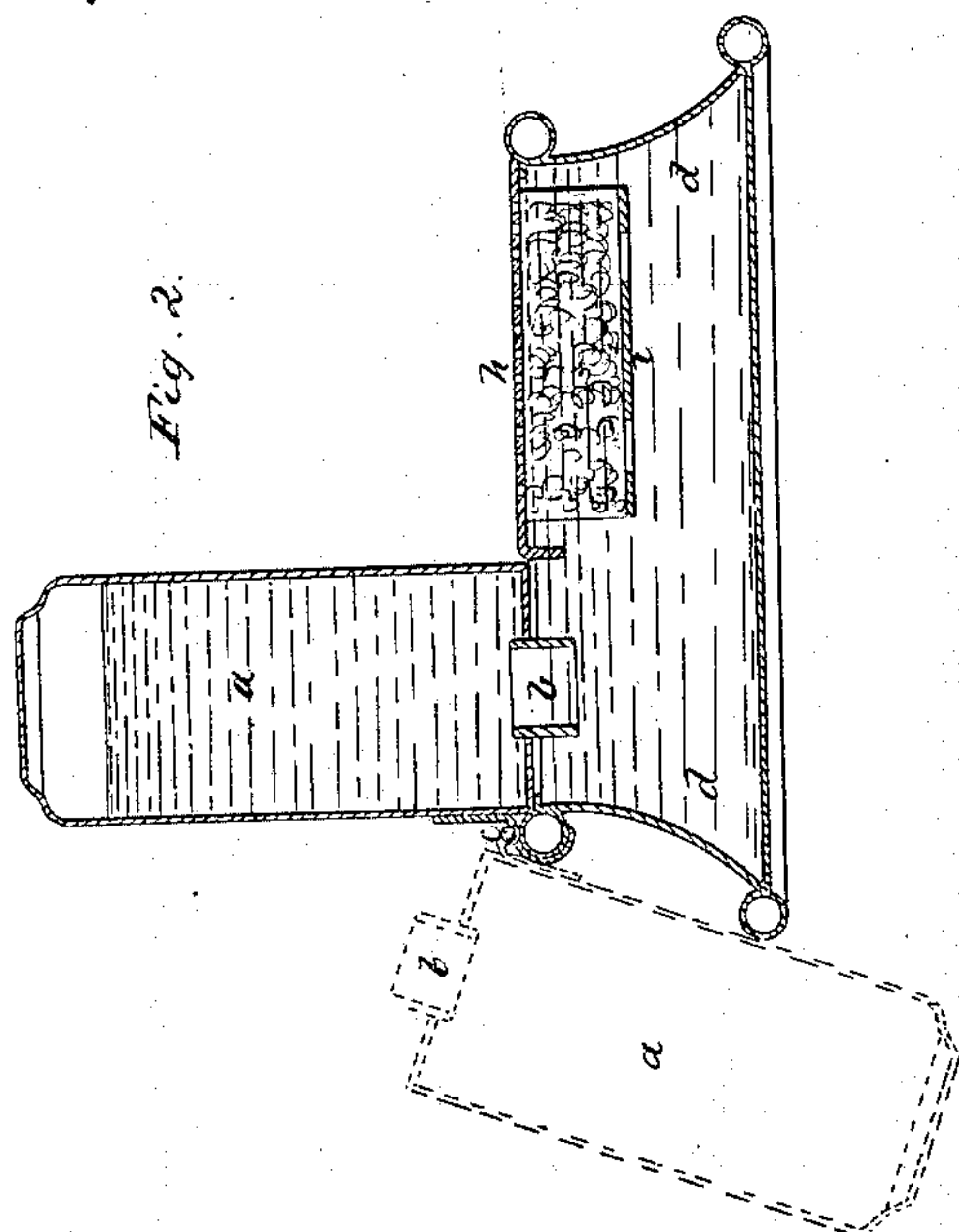


J. Benn & G. O. Luckman.

Sponge Cup.

No 69,895.

Patented Oct. 15, 1867.



Witnesses

A. B. Barlow

Thos. E. Barlow

Inventor

Joseph Benn

G. O. Luckman

United States Patent Office

JOSEPH BENN, OF GOAT, NEAR COCKERMOUTH, AND GEORGE OSWALD LUCKMAN, OF MANCHESTER, ENGLAND.

Letters Patent No. 69,895, dated October 15, 1867.

APPARATUS FOR DAMPING AND GUMMING LABELS.

The Schedule referred to in these Letters Patent and making part of the same.

TO ALL TO WHOM IT MAY CONCERN:

Be it known that we, JOSEPH BENN, of Goat, near Cockermouth, in the county of Cumberland, mechanic, and GEORGE OSWALD LUCKMAN, of the city of Manchester, merchant, have invented certain new and useful "Improvements in Apparatus for Damping and Gumming Labels, Stamps, Envelopes, and Sheets of Paper;" and we hereby declare the following to be a full, clear, and exact description thereof, reference being had to the annexed drawing, forming part of this specification.

Our improved apparatus consists of a reservoir to contain a supply of water or adhesive solution. This reservoir is in communication with a chamber, the upper part of which is a perforated plate, under which is secured a sponge or other porous substance. When the apparatus is ready for use, the water or adhesive solution saturates the sponge or other porous substance, and minute portions of the water or adhesive solution penetrate through the perforated plate; consequently, on sliding the label or stamp over the perforated plate, sufficient moisture is imparted to it to damp the gum if the back of the said label or stamp is adhesive; or sufficient adhesive solution may in like manner be applied to the stamp or label if the back is plain. In making envelopes the apparatus may be used for applying the adhesive substance; and it may also be used to damp the adhesive substance previous to closing them. In damping paper, for copying letters or other purposes, it is necessary to allow the paper to remain on the perforated plate for a short time, or until the moisture has penetrated through the sheets of paper.

Description of the Drawing.

Figure 1 is a front elevation,

Figure 2 a transverse section, and

Figure 3 a plan of an apparatus suitable for damping and gumming labels or stamps constructed according to our improvements.

a is the reservoir, containing a supply of water or adhesive solution, which is filled through the orifice *b* when the reservoir is in the position shown in dotted lines in fig. 2. This reservoir is in communication with the chamber *d*, and it is connected thereto by the hinge *c* to allow the reservoir to be filled. The reservoir is held fast on the chamber *d* by the pin *e*. The upper part of the chamber *d* is formed by the finely-perforated plate *h*, connected by end partitions to the lower perforated plate *i*. The space between these two plates is filled up by sponge or other suitable porous substance. When the apparatus is ready for use, the water or adhesive solution penetrates through the perforations in the plate *h*; consequently, on sliding the label or stamp over the plate, sufficient moisture is imparted to it to damp the gum if the back of the label or stamp is adhesive, or sufficient adhesive solution is, in like manner, applied to the label or stamp if the back thereof is plain. The above apparatus may also be used to damp the adhesive substance on envelopes previous to closing them.

In making envelopes a similar apparatus may be used, but of larger dimensions, and with perforations in the plate *h* in the particular positions required for only applying the adhesive substance in the parts where it is wanted for securing the folds together, and for closing them.

In damping paper, for copying letters or other purposes, the apparatus must be made to suit the size of the sheets of paper to be damped; and it is necessary to allow the paper to remain on the perforated plate *h* until the moisture has penetrated through the sheets of paper. The apparatus may be made of sheet metal, porcelain, glass, or other suitable material; and it is evident that, in all cases, the size of the apparatus, and particularly that of the perforated plate *h*, must be made in proportion to the size of the stamp, label, envelope, or sheet of paper to be damped or gummed.

Having thus stated the nature of our invention, and described a convenient mode of performing the same, we declare that what we claim herein as new, and desire to secure by Letters Patent of the United States, is—

The apparatus described, consisting of a reservoir, connected to a damping-chamber, provided with a perforated plate, or any combination of similar parts answering the same purposes, and for effecting the same objects.

In testimony whereof we have hereunto set our hands before two subscribing witnesses.

JOSEPH BENN,
G. O. LUCKMAN.

Witnesses:

H. B. BARLOW, *Patent Agent, Manchester.*

THOS. E. BARLOW, *Draughtsman, Manchester.*