

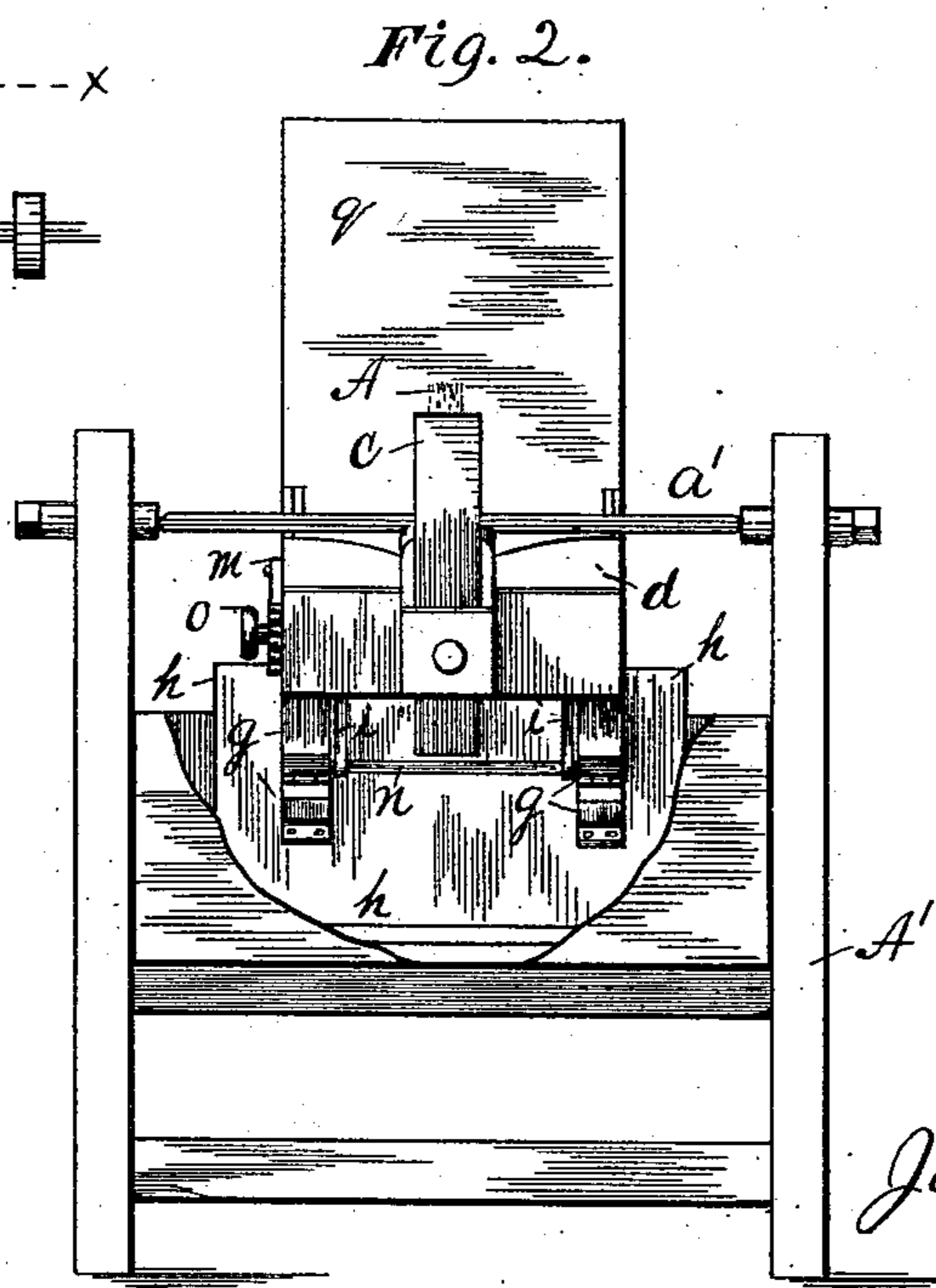
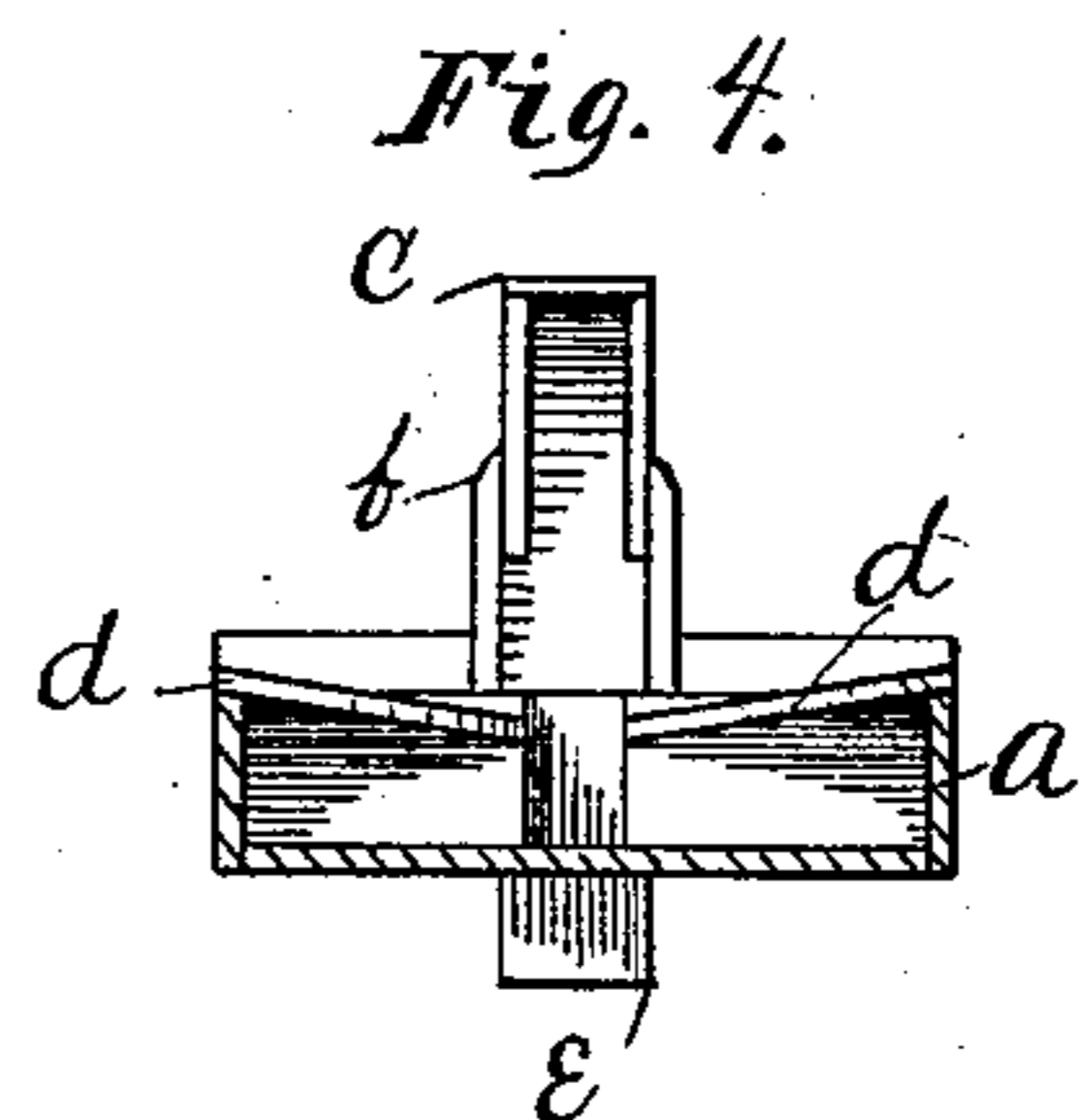
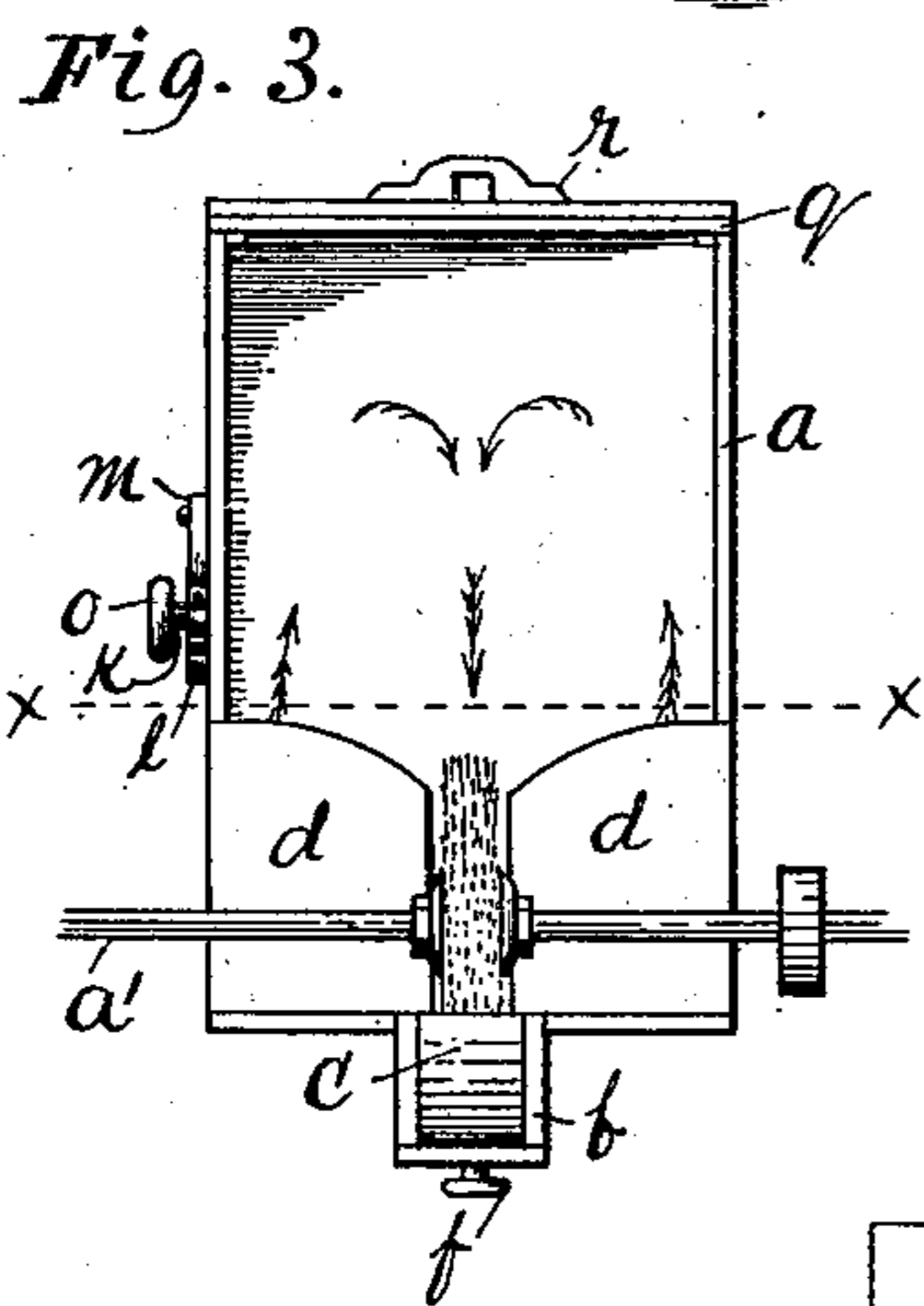
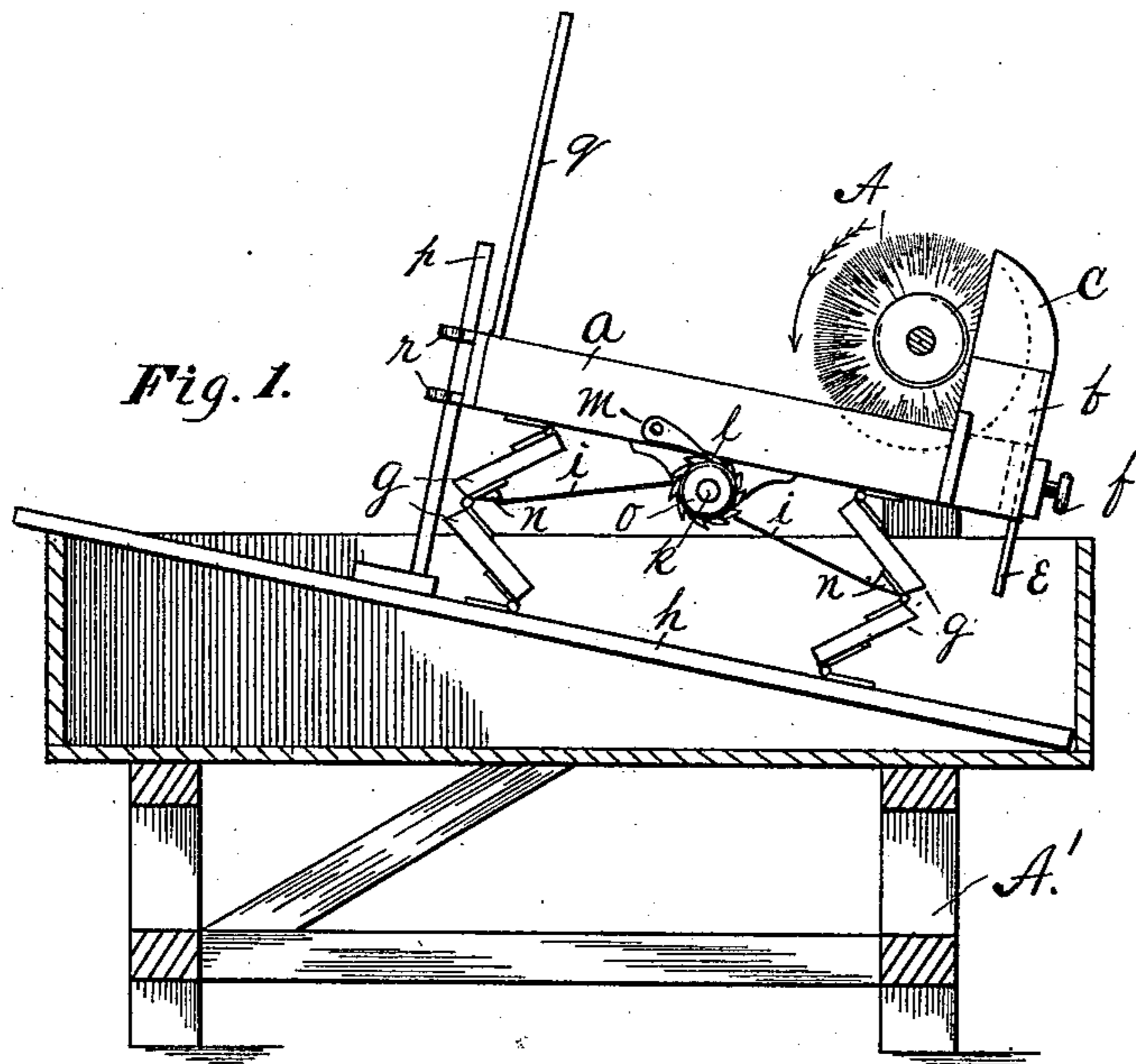
(No Model.)

J. CAMBERON.

DEVICE FOR SUPPLYING ABRADING AND POLISHING MATERIALS TO
CUTTING AND POLISHING TOOLS.

No. 507,212.

Patented Oct. 24, 1893.



Witness:
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UNITED STATES PATENT OFFICE.

JAY CAMBERON, OF NEW BEDFORD, MASSACHUSETTS, ASSIGNOR OF THREE-FIFTHS TO ANDREW SNOW, JR., OF SAME PLACE.

DEVICE FOR SUPPLYING ABRADING OR POLISHING MATERIALS TO CUTTING AND POLISHING TOOLS.

SPECIFICATION forming part of Letters Patent No. 507,212, dated October 24, 1893.

Application filed June 7, 1893. Serial No. 476,893. (No model.)

To all whom it may concern:

Be it known that I, JAY CAMBERON, a citizen of the United States, residing at New Bedford, in the county of Bristol and State of Massachusetts, have invented certain new and useful Improvements in Devices for Supplying Abrading or Polishing Materials to Cutting and Polishing Tools, of which the following is a specification.

My invention relates especially to tools which are used in cutting and polishing glassware; and its object is to provide means, whereby the cutting or polishing tool, is constantly supplied with the abrading or polishing material, without the aid or attention of the workman, during the operation.

To this end, my invention consists in the devices illustrated in the accompanying drawings, in which—

Figure 1. is a side view in vertical section of the ordinary frame of a cutting or polishing tool, showing my improvements, properly adjusted thereon. Fig. 2. is an end view of the entire cutting or polishing machine. Fig. 3. is a top view of the polishing tool and shaft and my improved reservoir for holding the abrading or polishing material. Fig. 4. is a view in vertical section of the reservoir, through the line *x. x.* of Fig. 3.

Similar letters refer to similar parts in the several views.

A. represents a polishing tool, mounted on a shaft *a'*, in a frame *A'*, in the usual manner.

a, represents a reservoir, for holding abrading or polishing material, which is provided with means for adjusting it to, or from the polishing tool; which means, in the present instance, consists of the pieces *g, g*, hinged together as an elbow joint, and hinged to the bottom of the reservoir *a*, and to the base board *h*. The shaft *k*, (preferably of wood) is mounted in bearings on the bottom of the reservoir *a*, and is provided with the ratchet wheel *l*, and the hand wheel *o*. On the side of the reservoir, is pivoted the pawl *m*, adapted to take into the ratchet *l*. At, or near the elbow joint of the pieces *g, g*, are secured the cross bars *n, n*, and to these cross bars, are secured the straps *i, i*, which are also secured to the shaft *k*, whereby, when said shaft is turned to the right by the hand wheel *o*, (as

shown in Fig. 1.) the straps are wound upon it, and the elbow joints straightened, and the reservoir, raised. By releasing the pawl *m*, from the ratchet wheel *l*, and turning the shaft *k*, in an opposite direction, the reservoir is lowered. To the base board *h*, is secured the upright *p*, which slides in guides *r*, on the end of the reservoir, and serves to assist in securing steadiness to the same.

The reservoir *a*, is provided with the partial cover *d, d*, extending to the sides of the tool, and preferably inclined toward the bottom of the reservoir, as shown in Fig. 4, and is further provided with the offset *b*, in the top of which, is adjustably secured the hood *c*, having extension *e*, adapted to be clamped by the set screw *f*.

The operation of the device is as follows: A sufficient quantity of abrading or polishing material (as the case may be) is put into the reservoir *a*, which, (as is shown in Fig. 1,) is set in an inclined position; and is then raised by means of the mechanism described, so that the edge of the tool will come in contact with the surface of the material. The hood *c*, is then adjusted, so that its top will just clear the tool. As the tool revolves in the direction of the arrow, a circulation is created in the material in the reservoir, as indicated by the arrows, and a constant and even supply of said material to the tool, is maintained. The partial cover *d, d*, together with the hood *c*, causes a strong current of air to be formed by revolution of the tool, which assists somewhat in the circulation of the material in the reservoir, and directs the "fly" toward the spatter board *q*. As the tool wears, and becomes less in diameter, the reservoir is raised to that extent, and the periphery of the tool kept in constant contact with the abrading or polishing material.

I claim—

1. Combined with a cutting or polishing tool, a reservoir for holding the abrading or polishing material, having offset *b*; with hood *c*, adjustably mounted thereon; and provided with means, intermediate the bottom of said reservoir and a base *h*, independent of the tool frame, whereby said reservoir may be bodily adjusted to or from said tool, all as shown and described.

2. Combined with a cutting or polishing
tool, a reservoir for holding the abrading or
polishing material, having offset *b*, with hood
c, adjustably mounted thereon; and having a
5 partial cover *d*, extending to the sides of said
tool; and provided with means intermediate
the bottom of said reservoir and a base *h*, in-

dependent of the tool frame, whereby said
reservoir may be bodily adjusted to or from
said tool, all as shown and described.

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Witnesses:

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