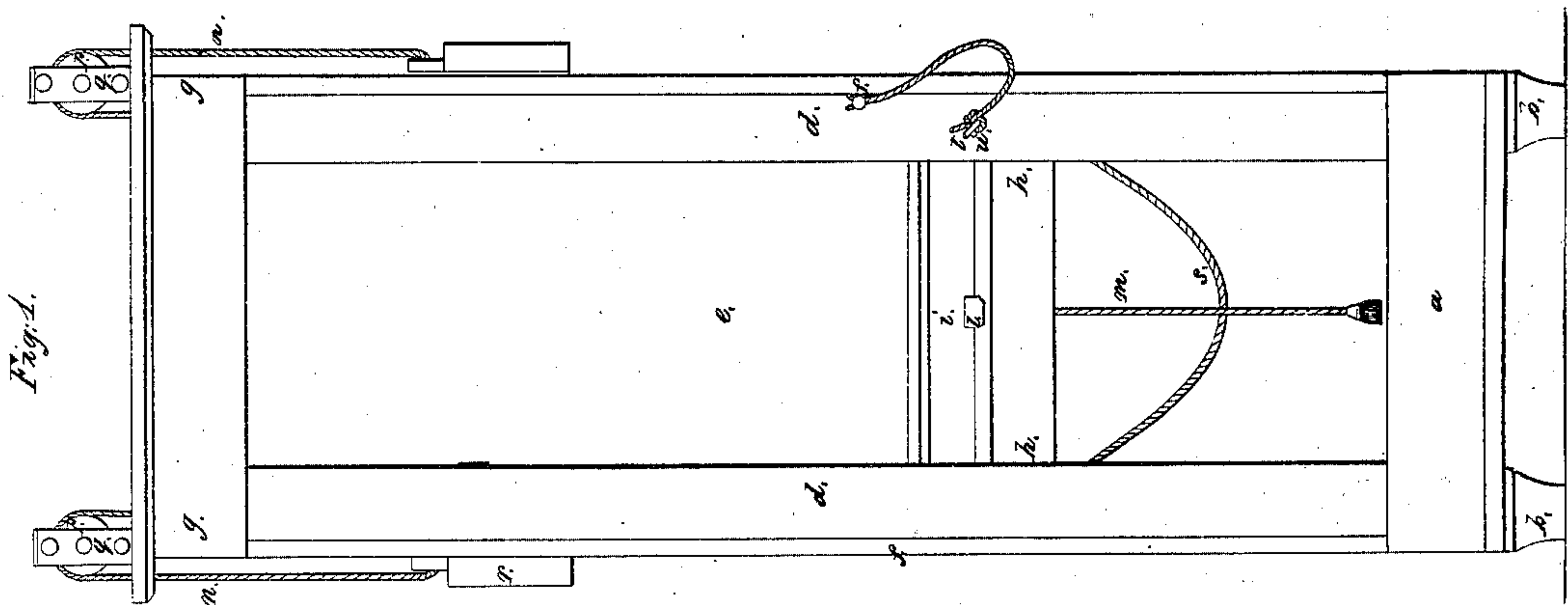
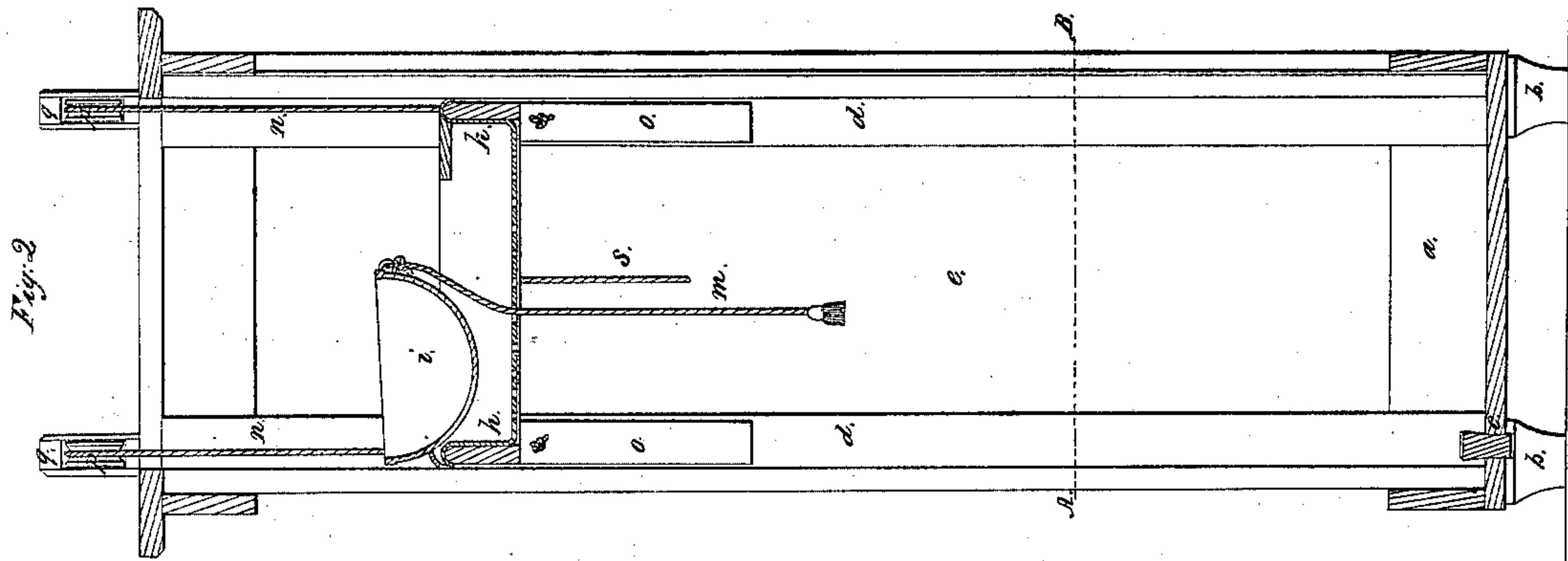
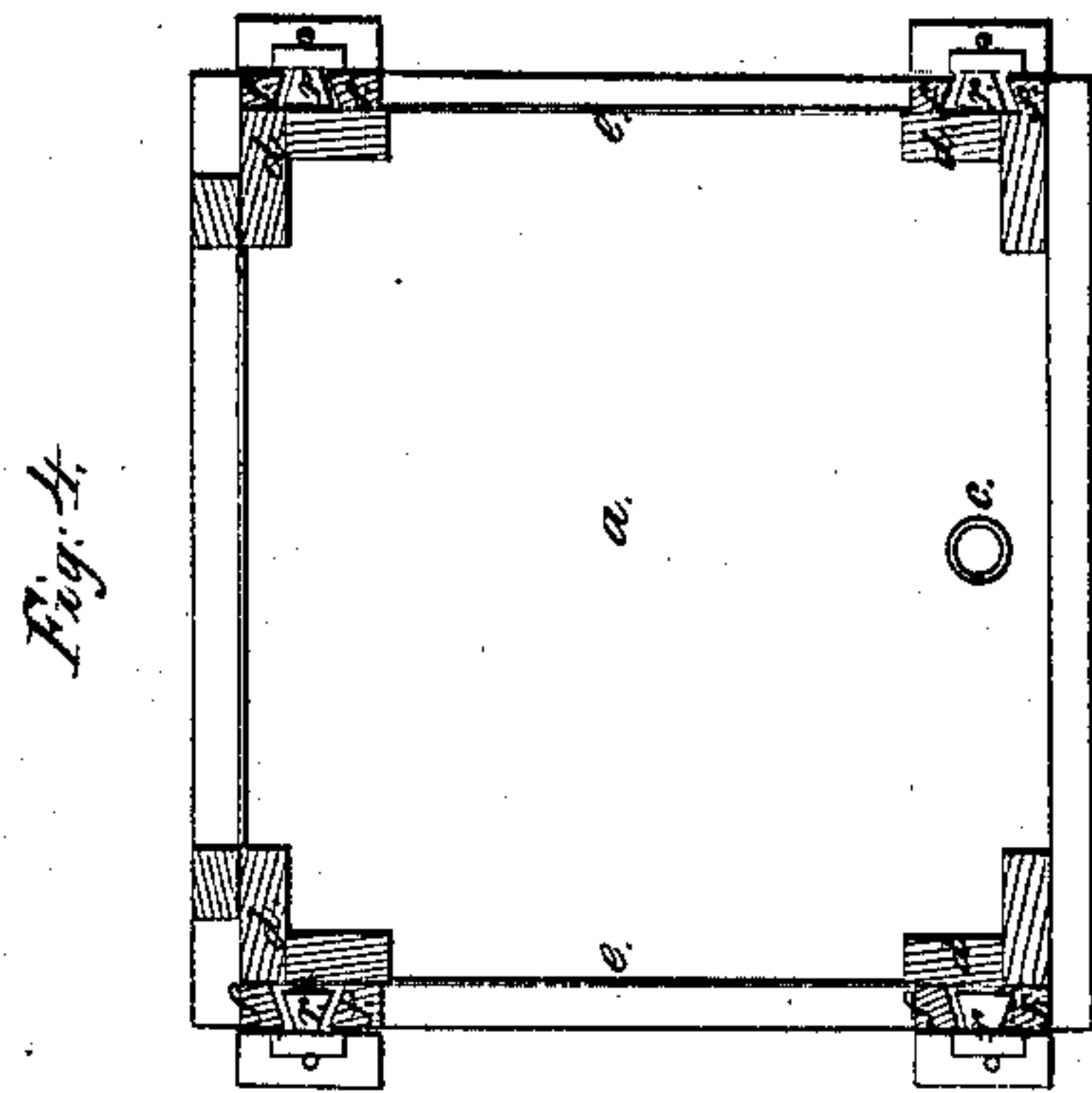
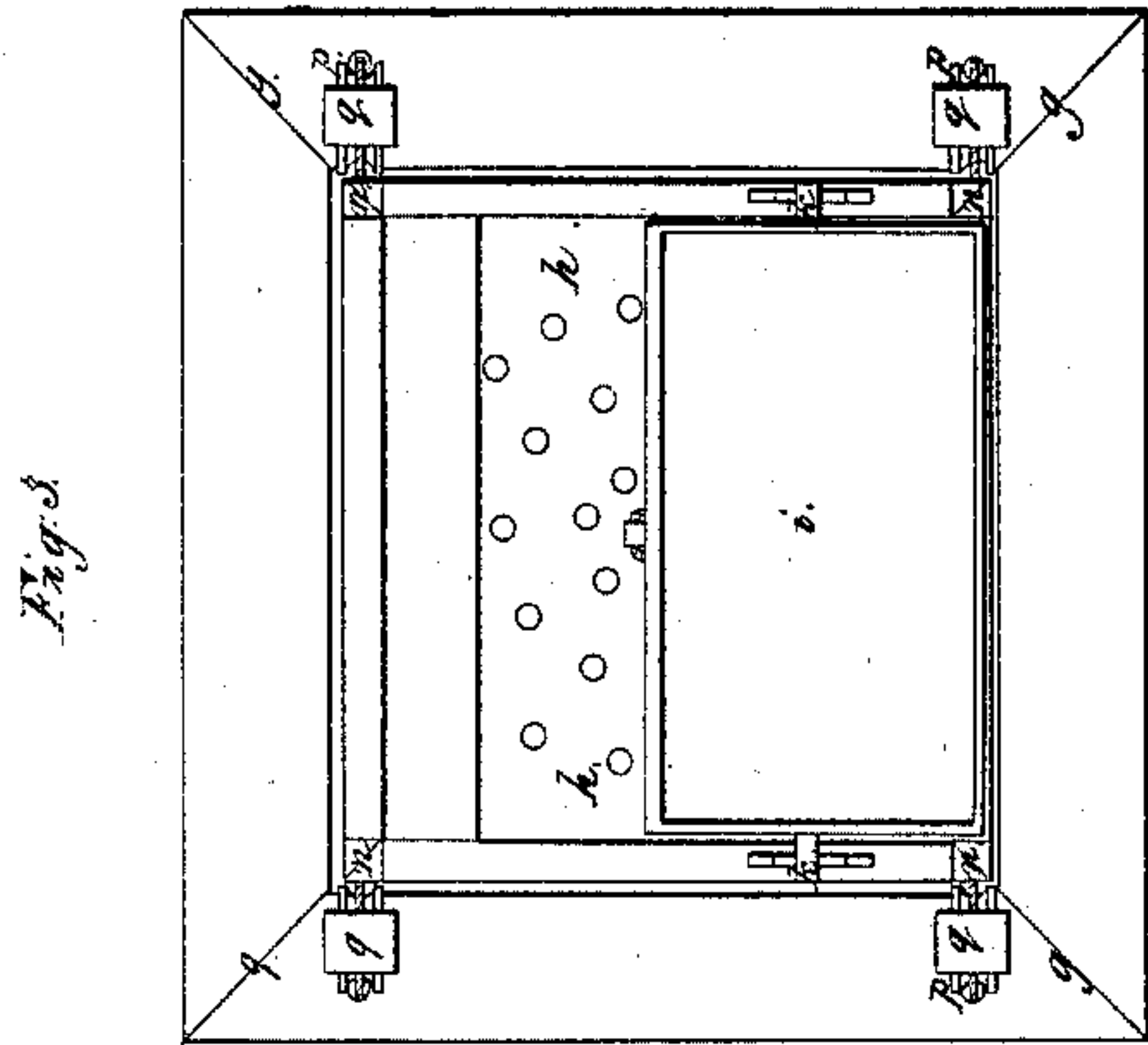


S. Bates,

Shower Bath,

N^o 3,302.

Patented Oct. 12, 1843.



UNITED STATES PATENT OFFICE.

STEPHEN BATES, OF DEDHAM, MASSACHUSETTS.

SHOWER-BATH.

Specification of Letters Patent No. 3,302, dated October 12, 1843.

To all whom it may concern:

Be it known that I, STEPHEN BATES, of Dedham, in the county of Norfolk and State of Massachusetts, have invented new and
5 useful Improvements in Shower-Baths, and that the following description, taken in connection with the accompanying drawings, hereinafter referred to, forms a full and exact specification of the same, wherein I
10 have set forth the nature and principles of my said improvements by which my invention may be distinguished from others of a similar class, together with such parts or combinations as I claim and wish to have
15 secured to me by Letters Patent.

It is well known, that in the use of the aforementioned baths, it is frequently desirable to repeat the operation of "showering" several successive times with the same
20 water, and that considerable exertion is requisite to raise the water to the showering or upper basin for the first bath, while the same exertion is necessary, and great inconvenience is experienced in removing it from
25 the lower or foot basin and replacing it in the upper one for a second or third bath. Heretofore this operation has been accomplished by carrying the water up steps of sufficient height, to pour it in at the top of
30 the bathing apparatus, or by means of a force pump, both ways being exceedingly wearisome and the latter considerably expensive.

My improvements consist in suspending
35 the upper or showering basin and parts connected with the same so that they may be lowered to any required depth to enable a person to pour in the water by raising it a little distance from the floor, and after it
40 is so poured in, the said basin, &c., may be raised to its original position or to any height, from which it may be desired to have the water fall.

The figures of the accompanying plate of
45 drawings represent my improvements.

Figure 1, is a front elevation of the apparatus, showing the showering apparatus developed. Fig. 2, is a cross vertical section, the showering basin being near the top.
50 Fig. 3, is a plan and Fig. 4, is a horizontal section taken in the plane of the line A B Fig. 2.

A, Figs. 1, 2, 4, is a square or rectangular foot basin or tub in which is supported on
55 legs *b, b*, &c., and has a suitable discharging orifice *c* in the bottom, through which

the water passes out and falls into any proper receiving vessel.

d, d, &c., are square upright posts, arranged one at each of the inside corners of the basin *a* as shown in Figs. 1, 2, and 4. 60 These posts may be solid with a right angular groove formed therein as shown in Fig. 4, or they may be formed of two pieces of board or plank, framed together so as to 65 form said groove or space for the showering basin to slide up and down in, as will be explained hereinafter. To the outside of the posts *d, d*, &c., pieces of oiled cloth *e* or any other fabric impervious to water are to 70 be tacked, so as to inclose the apparatus on three of its sides, (the front being left open for entrance), and on the outside of this cloth and fastened to the posts *d, d*, &c., are strips of board *f, f*, Figs. 1 and 4 beveled 75 off, so as to form a dovetailed or other shaped groove at each corner of the apparatus, the object of which grooves will be shown hereinafter. The posts *d, d*, &c., are surmounted by a cap molding *g g g g* 80 Figs. 1, 2, 3, which incloses or surrounds the showering basin when it is in its highest position. *h h* is a rectangular showering basin the bottom of which is perforated in the ordinary way. 85

i is the turning bucket shaped as seen in section in Fig. 2, in which the water to be used is poured. This bucket is supported by journals *k, k*, Fig. 3, which rest in proper bearings projecting upward from the basin 90 *h h*, the said journals being arranged so as to be eccentric or out of the axis of the bucket, in the usual way. A lip or projection *l* Figs. 1 and 2 on the heavier side of the bucket and which rests on the top of 95 one side of the basin *h h*, serves to keep the bucket horizontal when filled with water, and a cord *m* Fig. 1, attached to the other side enables the person in the bath to turn the bucket when desired. 100

The showering basin as has been before suggested, is suspended at its four corners from the cords *n, n, n, n*, as shown in Fig. 4, and slides up and down in the right angular spaces of the posts *d, d*, being guided 105 in its motions by the depending bars or legs *o, o*, attached to the four corners of its underside. The cords *n, n*, &c., pass up over the pulleys *p, p, p, p*, in the upright blocks *q, q, q, q*, (arranged on the top of the cap- 110 molding *g g g g* one at each corner of the same), and have fastened to their ends the

weights *r r r r* Figs. 1 and 4. These weights combined are sufficient to nearly or quite counterpoise the weight of the basin *h h* and bucket *i* when filled with water, so that
5 it may require but little exertion to raise the showering apparatus when filled for use; the inner faces of these weights are also formed with suitable tongues to match the grooves before described as formed by the
10 strips of board *f f*, by which arrangement the said weights are guided in their motions up and down.

The showering apparatus is pulled down to receive the water by means of the looped
15 cord *s* Fig. 1, and is kept down while the water is being poured into the bucket *i*, by means of the confining pin *t* which is passed through the hole *u*, in one of the posts *d*, above the top of the basin *h h* when it is
20 depressed.

It will be apparent that other means may

be devised for suspending the showering apparatus, though I consider that described above as novel and preferable, the main feature however of my invention consists in
25 making the showering apparatus movable for the purposes specified.

Having thus described my improvements I shall claim as my invention—

Making or arranging the showering apparatus and turning bucket so that they may
30 be raised or depressed at pleasure in the manner set forth.

In testimony that the foregoing is a true description of my said invention and im-
35 provements I have hereto set my signature this eighth day of August in the year eighteen hundred and forty three.

STEPHEN BATES.

Witnesses:

EZRA LINCOLN, Jr.,

GRIDLEY I. F. BRYANT.