

(No Model.)

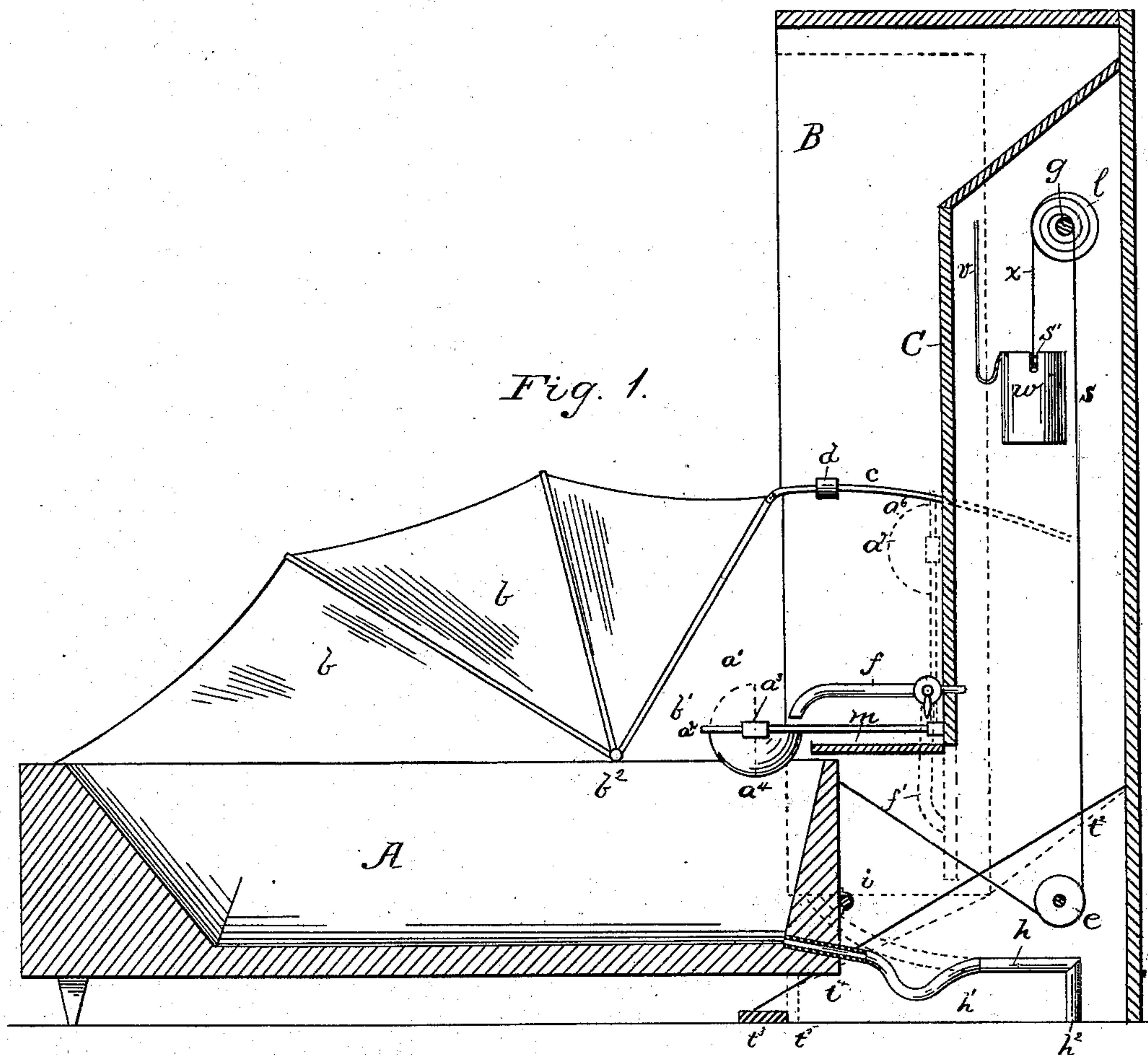
2 Sheets—Sheet I.

F. H. FICKETT.

BATH TUB.

No. 254,946.

Patented Mar. 14, 1882.



Witnesses:

W. B. Jayne
Stephen A. Douglas

Inventor:

Franklin H. Fickett.
By Wm. Zimmerman,
Att'y.

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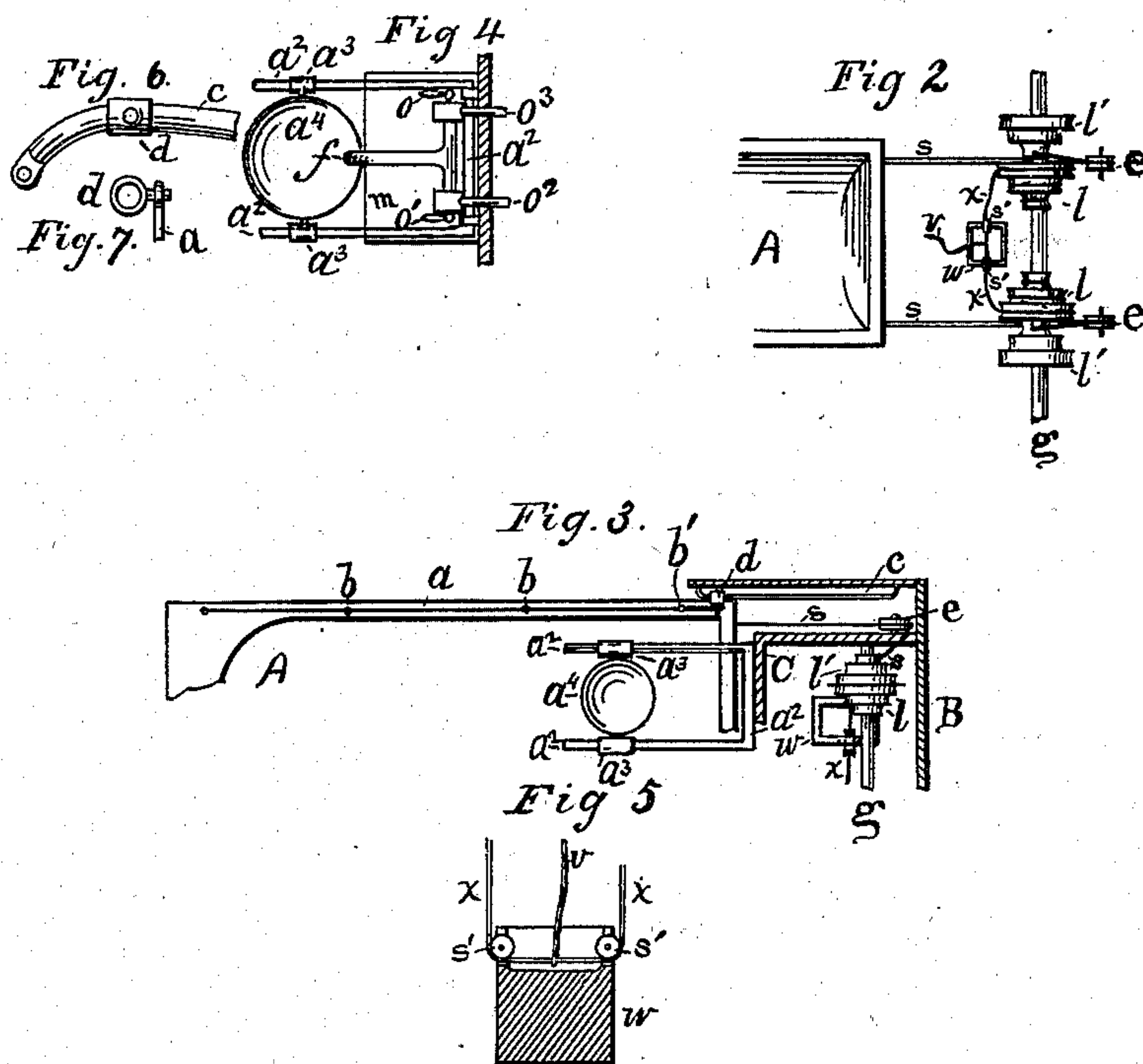
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F. H. FICKETT.

BATH TUB.

No. 254,946.

Patented Mar. 14, 1882.



Witnesses:
W. H. Payne
Chas. F. Ruff

Inventor:
Franklin H. Fickett
By Wm Zimmerman
Attys.

UNITED STATES PATENT OFFICE.

FRANKLIN H. FICKETT, OF CHICAGO, ILLINOIS.

BATH-TUB.

SPECIFICATION forming part of Letters Patent No. 254,946, dated March 14, 1882.

Application filed November 28, 1881. (No model.)

To all whom it may concern:

Be it known that I, FRANKLIN H. FICKETT, of Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Bath-Tubs; and I hereby declare the following to be a full, clear, and exact description thereof, which will enable others skilled in the art to which my invention relates to make and use the same, reference being had to the accompanying drawings, forming a part hereof, and in which—

Figure 1 represents a vertical and longitudinal central section of a folding or cabinet bath-tub with my improvements. Fig. 2 represents a plan view of the rear end of a bath-tub and spiral pulleys, weight, and cords. Fig. 3 represents a horizontal section of the cabinet above the spiral pulley and a plan view of the bath-tub drawn out, only one-half of the whole apparatus being represented, except the wash-bowl and its support, of which the whole is shown. Fig. 4 represents a plan view of the cover *m*, faucet *f*, and wash-bowl. Fig. 5 represents a sectional view of the weight, showing the arrangement of the pulleys and cords. Fig. 6 represents an enlarged view of the railing, *c*, with the sliding bolt. Only the front end of the railing is shown. Fig. 7 represents an end view of the eyebolt and a small fragment of the splasher.

Like letters of reference indicate like parts.

The object of my invention is to improve the details of construction and operation of Patent No. 240,313, granted to me April 19, 1881, and to that end I construct the parts as hereinafter described and shown.

In the drawings, B represents the cabinet, and A the bath-tub, turning on a point or hinge, *i*. To the upper edge of the rear end and on each side of the tub are attached cords *s*, which pass under the fixed pulleys *e*, and from thence upward, and are attached each to the apex of a conical pulley, *l'*, provided with a spiral groove or path for the cord to work in. To the same shaft, *g*, are also attached like formed pulleys, *l*. These pulleys *l* and *l'* may be attached base to base, or vice versa, or base to apex, as shown in Fig. 2. To the apex of each pulley *l* is attached a cord, *x*, which carries between its fixed ends a weight, *w*, provided with pulleys *s'*, and

midway between the ends and to the cord *x* is attached a cord, *v*, of which the other end is attached to any convenient point vertically over the weight *w*, and of a length as found desirable for the special purpose. The spiral pulleys *l* and *l'* are so arranged that the cord *s* will, for example, wind upon the pulley from the apex to the base, and the cord *x* will in that case unwind from the base to the apex. It will be evident from this that when the cord *x* is suspended from the base of its pulley the cord *s* is on the apex of its pulley, and that consequently the weight *w* will overcome a many times greater weight A on the cord *s*, and as the outer end of the weight A rises it gives less resistance in proportion, until finally it is balanced over the hinge or pivot *i*. As the weight *w* descends the cord *x* unwinds or works toward the apex, and thus exerts a constantly decreasing force, so that at the apex the weight *w* exerts no force upon the cord *s*.

This construction and manner of using double spiral pulleys, as just explained, is not my invention; but the following additional improvements are my invention—namely, the attachment of the cord *v* and pulleys *s'* in connection with the weight *w* and spiral pulleys *l* and *l'*.

Its operation is as follows: When the weight *w* descends and A ascends it is often desirable to decrease the power of the weight *w* still more, and for this purpose the cord *v* is arranged of a proper length, so that it acts at the proper point, when it will hold the center of the cord *x*, after which, if the weight descends still farther, only half of its weight acts on the cord *x* while it completes its course on the spiral pulleys *l*.

Instead of using the rubber-packed joint for the waste-pipe, I connect the waste-pipe *h*² with a flexible pipe, *h'*, which adapts itself to the different positions of the tub, its ends being firmly connected to the tub and the pipe *h*². When the bath-tub is raised the tube assumes the position *h*. (Shown dotted.)

A neat base is desirable all around the cabinet; but the part on the front must be turned down. This I accomplish by hinging the base *t*³ at *t*⁵ and attaching to it a cord, *t'*, which is fastened to the back of the cabinet at a point

high enough to cause the upper edge of the bath-tub to press upon it before it has fully entered the cabinet, and thus depress the cord t' , as shown in dotted lines t^2 , and thereby raise the base into the dotted position t^4 . When the bath-tub is taken out the cord is released and the bath-tub will overturn the base, as shown. The bath-tub is shown notched for the cord t' .

Two water-pipes, $o^2 o^3$, for hot and cold water pass through the weight-chamber C, over the trap-door m , and are united by a T-shaped cock, f , which is jointed in the heads of the pipes $o^2 o^3$, so that it may fall with the lid m , as shown in dotted outline, when the bath-tub is raised, and thus be out of the way of the bath-tub.

Upon each side of the bath-tub are arranged splashers, formed of ribs $b b b'$, hinged at b^2 and covered with a flexible substance, preferably oil-cloth. The inner and upper corner of this cloth is attached to an eyebolt, d , arranged to slide upon a railing, c , attached to the inner side of the chamber B. The rail c is bent upward at its outer end, so as to adapt itself to the motion of the rib b' as it rises, and at the same time moves inward when the bath-tub is raised. The eyebolt d slips loosely upon the rail c to the back end of said rail, and thereby allows room for the other ribs, $b b$, to pass in and fold up in the manner of a fan. When the bath-tub is drawn out the eyebolt d slides out to the front, where it is arrested by the fastening which holds the rail, and from thence the splasher is spread out, as shown. The object of the splasher is to prevent the slopping of water over the sides of the tub.

A wash-basin, a^4 , is pivoted to sleeves a^3 , sliding loosely on the prongs of a fork, a^2 , which is hinged to the lower end of the weight-chamber C, and rests when down upon the lid m , as shown.

In Fig. 1 the bowl is shown under the faucet f ready for use and in dotted outline a^0 when emptying. After use the fork, with the bowl, is raised into the position shown in dotted outline $a^6 a^7$, and held there by any suitable contrivance.

What I claim as new is—

1. The bath-tub A, hinged at i , and attached by cords s to spiral pulley l' and spiral pulleys $l l$, in combination with the weight w and cords x and v , arranged to operate substantially as specified.

2. In combination with a bath-tub hinged to and so as to fold into a cabinet, and provided with a waste-pipe, the flexible joint h' , and pipe h^2 , constructed to operate substantially as specified.

3. In combination with a bath-tub hinged to and so as to fold into a cabinet, the hinged base t^3 and cord t' , arranged to operate substantially as specified.

4. In combination with a bath-tub hinged to and so as to fold into a cabinet, the T-shaped and jointed cock f and lid m , arranged to operate substantially as specified.

5. In combination with a bath-tub hinged to and so as to fold into a cabinet, a folding splasher arranged upon the longitudinal sides of the tub and so as to fold with it into the cabinet, substantially as specified.

6. In combination with a bath-tub hinged to and so as to fold into a cabinet, the wash-bowl a^4 , operated upon a hinged and vertically-swinging frame, a^2 , substantially as specified.

FRANKLIN H. FICKETT.

Witnesses:

WM. ZIMMERMAN,
ORVILLE C. ROVABAUGH,
W. H. JAYNE.