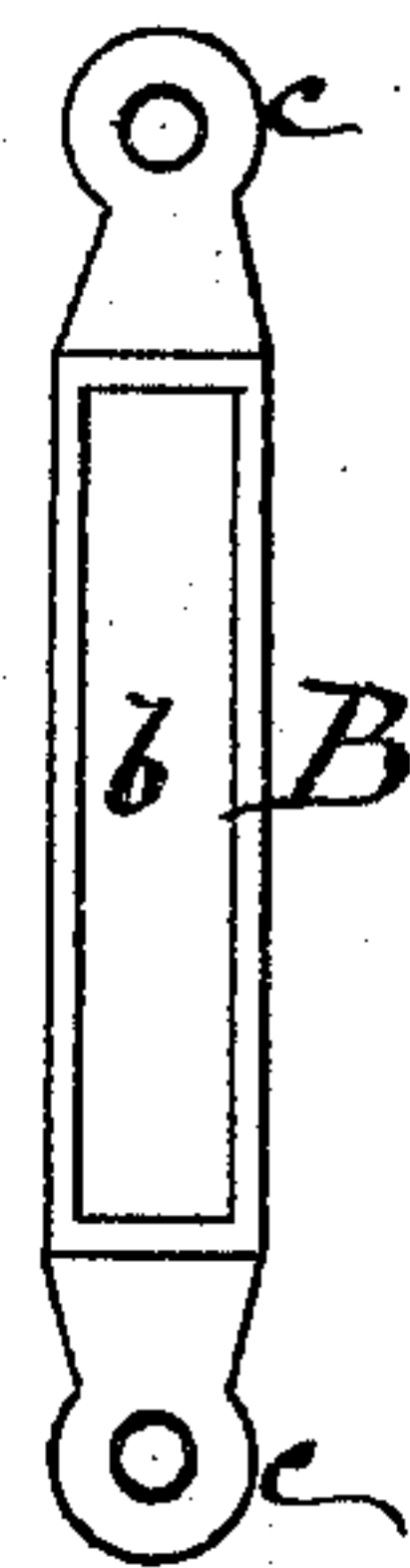
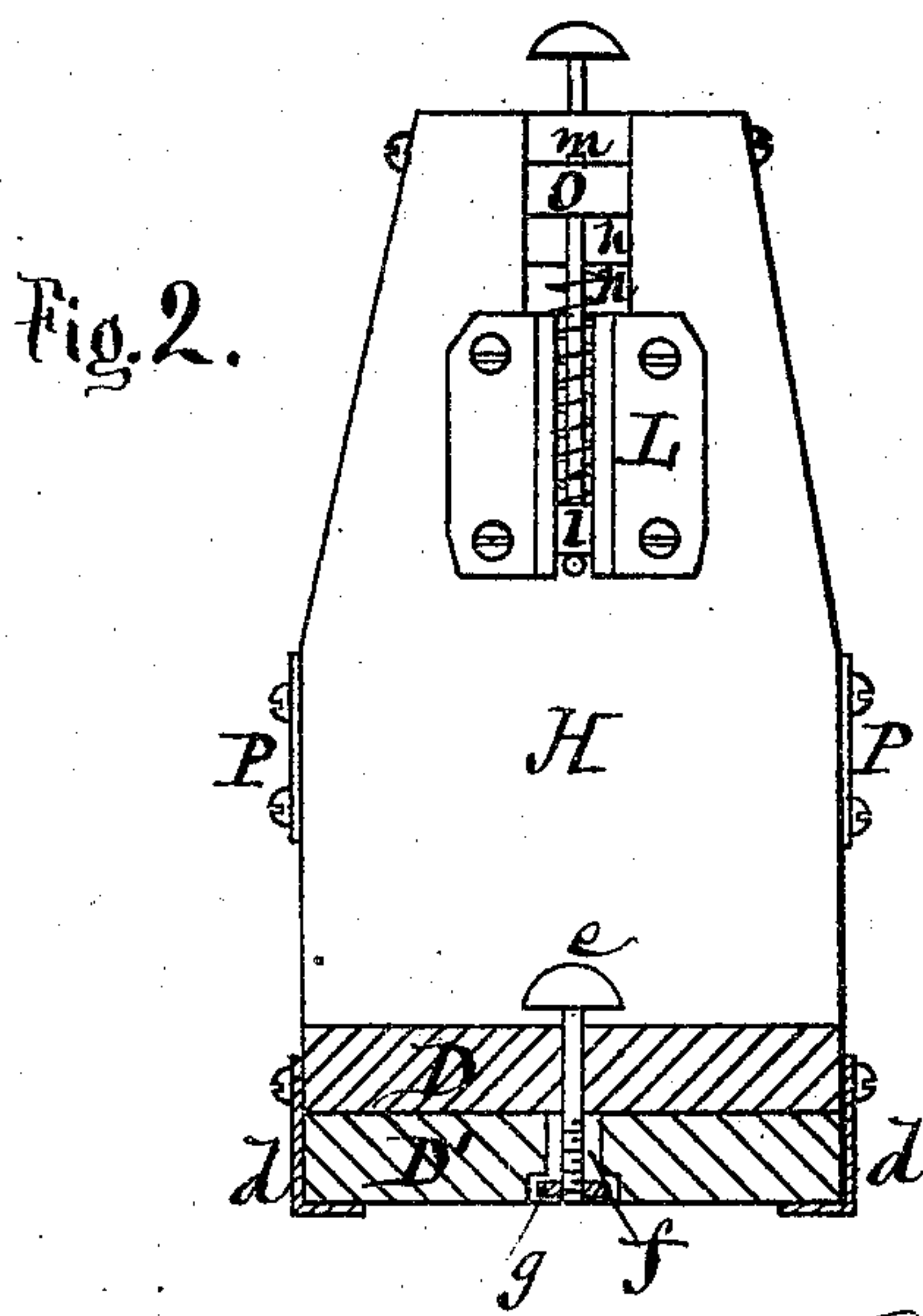
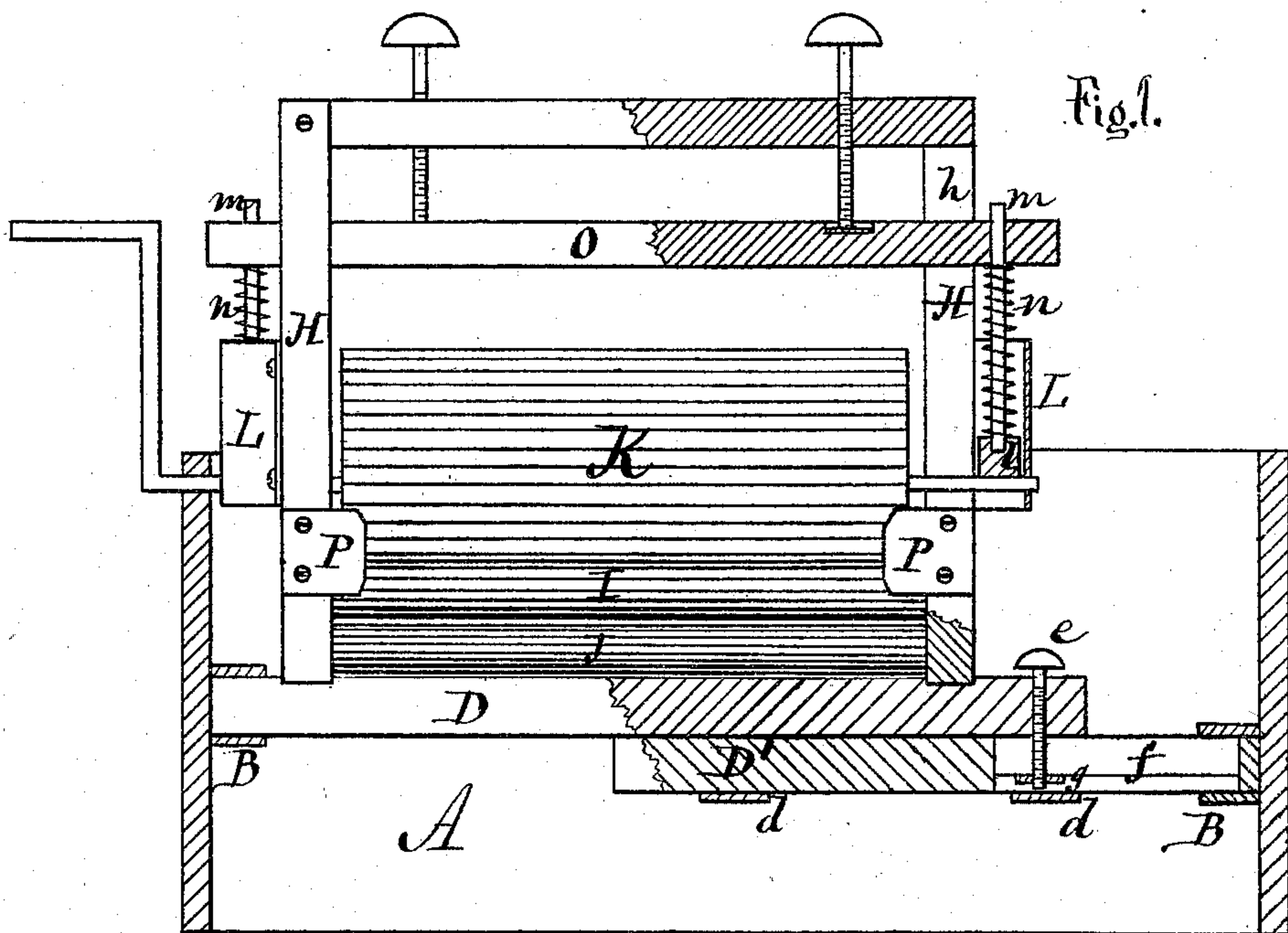


G. W. FAGAINES.
Washing-Machines.

No. 138,387.

Patented April 29, 1873.



Witnesses.

Phil. C. Case
Chas. B. Steele

Inventor.

G. W. Fagaines
Chipman & Fagaines
Attys.

UNITED STATES PATENT OFFICE.

GEORGE W. FAGAINES, OF SHELBY, OHIO, ASSIGNOR OF ONE-HALF HIS
RIGHT TO JOHN COTNER, OF SAME PLACE.

IMPROVEMENT IN WASHING-MACHINES.

Specification forming part of Letters Patent No. **138,387**, dated April 29, 1873; application filed
March 22, 1873.

To all whom it may concern:

Be it known that I, GEO. W. FAGAINES, of Shelby, in the county of Richland and State of Ohio, have invented a new and valuable Improvement in Washing-Machines; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawing making a part of this specification and to the letters and figures of reference marked thereon.

Figure 1 of the drawing is a representation of a front view of my washing-machine, broken away to show working parts. Fig. 2 is an end view, and Fig. 3 a detail view, of the same.

My invention relates to that class of washing-machines in which a large fluted roller revolves in connection with a concave bed of rollers; and it consists in an extension bottom in connection with fastening devices, whereby the machine may be attached to tubs of different sizes.

In the drawing, A represents a tub with my machine attached to two of its sides by means of the extension bottom and fastening devices. Said fastening devices consist of bars or brackets, B, made of wood or metal, in the form shown in Fig. 3, having a slot, *b*, running longitudinally, and a perforated lug, *c*, at each end for screwing the bracket to the tub. The extension bottom consists of two bars, D D', placed one under the other, and held together by keepers *d* or metallic straps attached to the upper bar D and bent under the lower bar D', as shown in Fig. 2. A thumb-screw, *e*, passes through a hole in the upper bar D, and through a slot, *f*, in the lower bar D', engaging with a nut, *g*, working below the slot *f*, so that the lower bar D' may slide longitudinally and be held at desired points by means of the screw *e* and nut *g*. The brackets B are attached to two opposite sides of the tub, and the bars D D' are extended so that their ends engage with the brackets, and then tightened

by means of the screw and nut. By this arrangement the machine may be attached to tubs of different sizes, and securely held in position. To the board D are attached two standards, H H, in which the rollers are journaled. The concave bed of rollers I is situated near the bottom, with a roller, J, on each side under the highest portion of said bed. The large fluted roller K is journaled in blocks *l*, from which extend upward rods *m*, surrounded by spiral springs *n*, and passing through holes in the end of a bar, O, which work in slots *h* in the upper portions of the standards H. The blocks *l* work in metallic boxes L attached to the standards, and having slots in their outer sides, through which the ends of the journals protrude, and which, with corresponding grooves in the standards H, serve as guides for keeping the journals in a vertical line of travel as the roller K rises and falls with the pressure of the clothes under it. The tension of the springs *n* is regulated by set-screws passing through the top rail which connects the standards, and bearing upon the upper side of the bar O. The guides for the clothes passing between the rollers consist of metallic plates P secured to the edges of the standards to prevent the clothes clogging the ends of the rollers.

What I claim as new, and desire to secure by Letters Patent, is—

The extension bottom, consisting of the bars D D', placed one under the other, and held together by the keepers *d*, in combination with the fastening-brackets B, substantially as shown and described.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

GEORGE WASHINGTON FAGAINES.

Witnesses:

JACOB WEISER,
JOHN KAHL.