

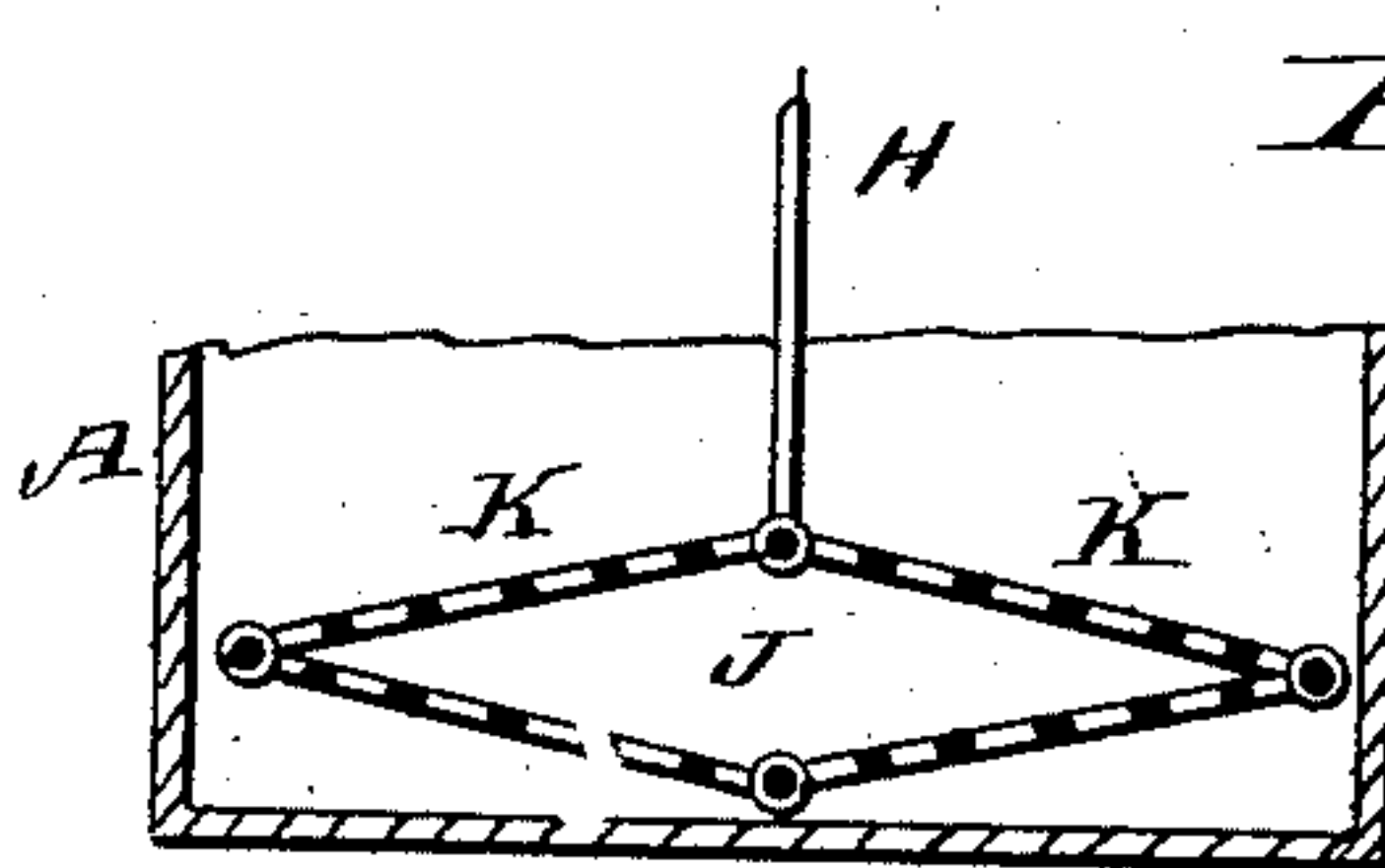
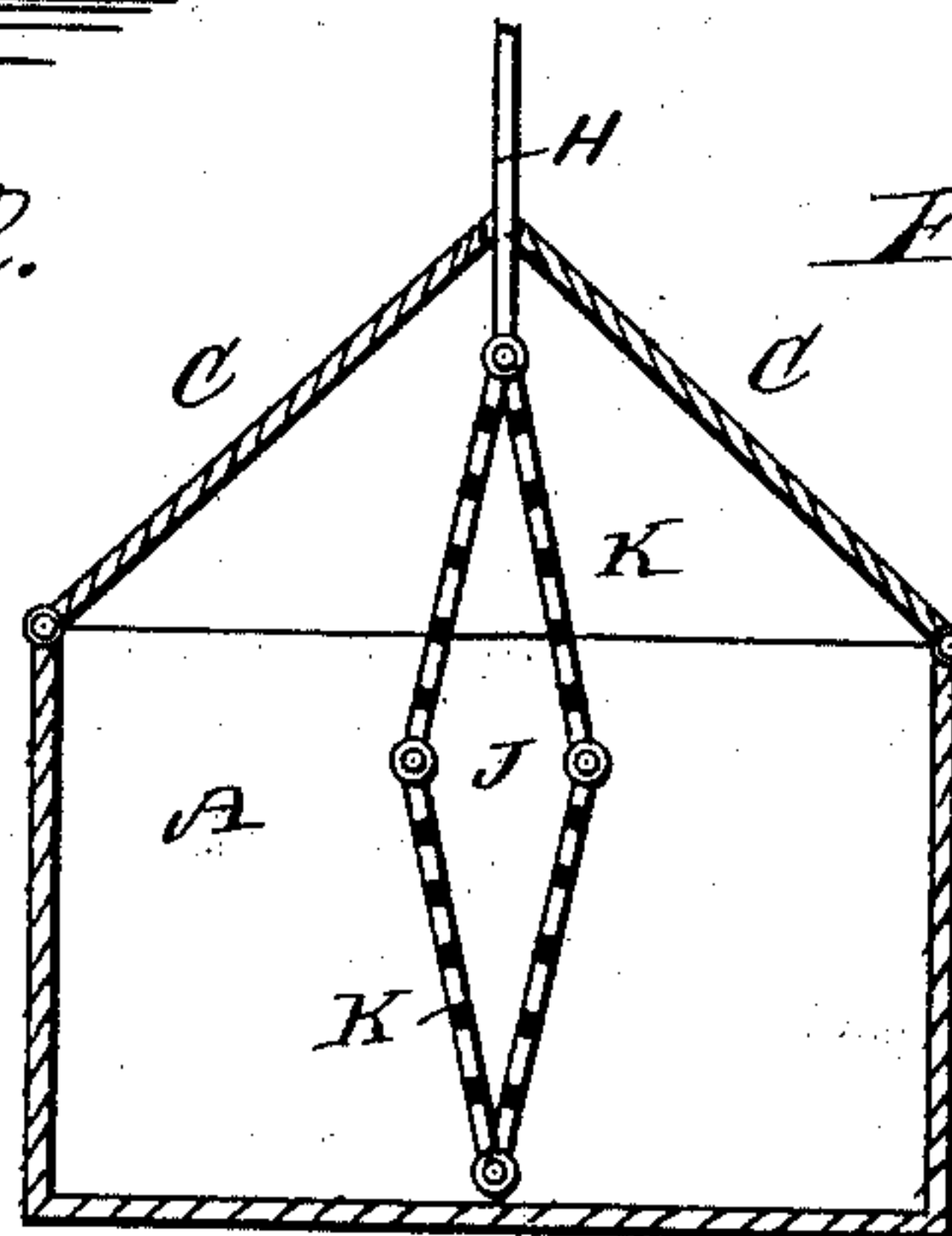
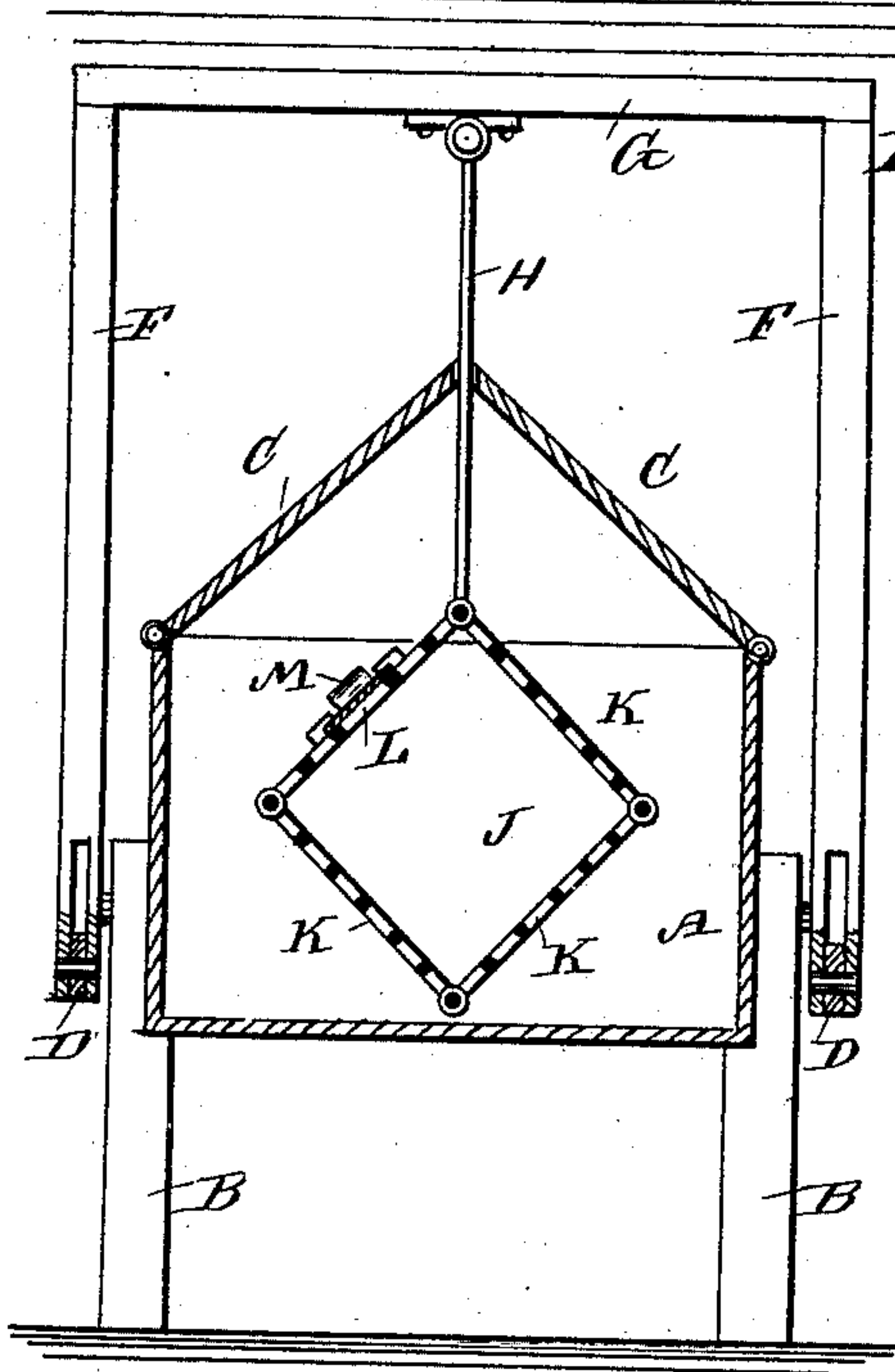
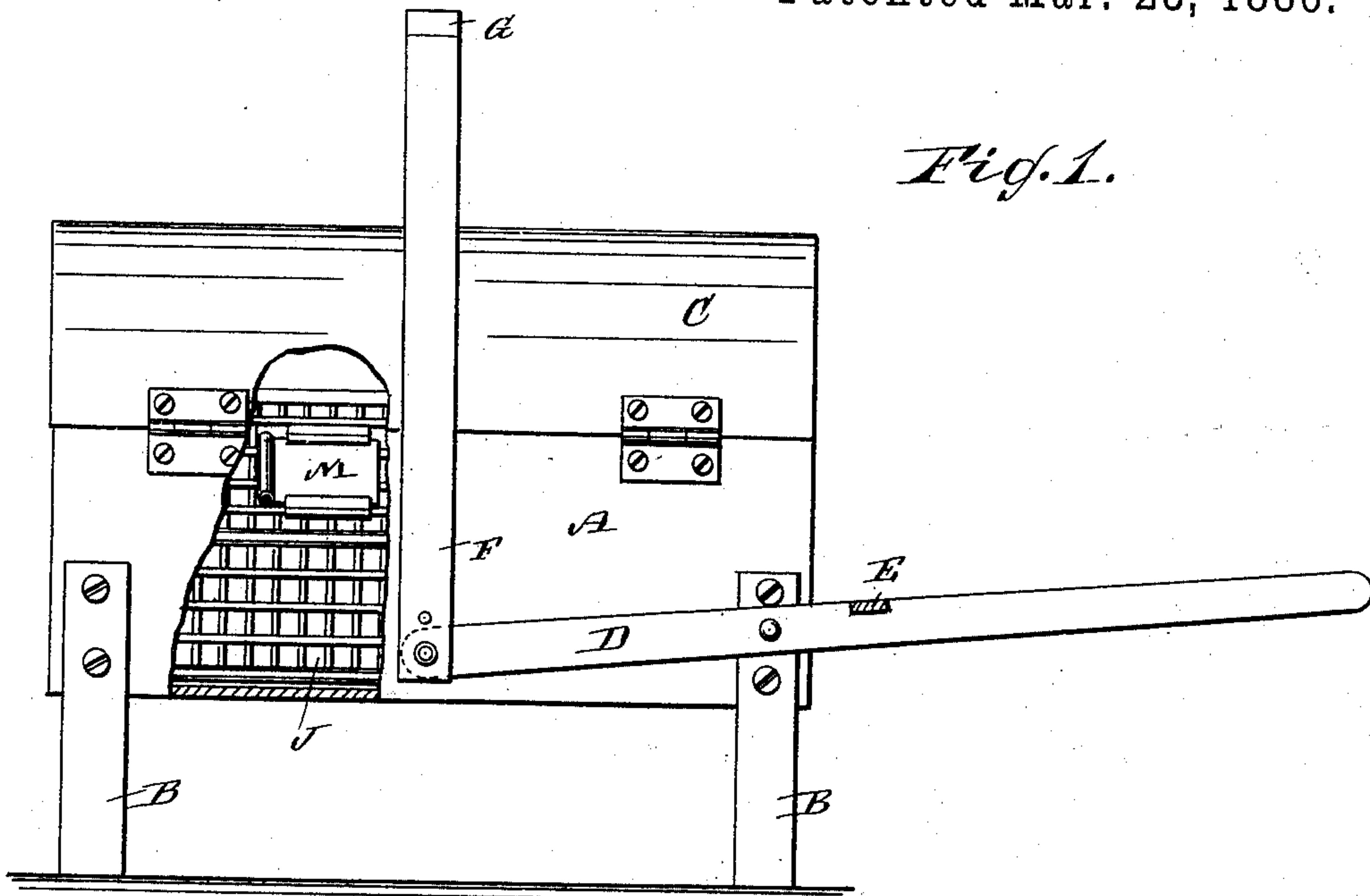
(No Model.)

F. E. RICHARDSON.

WASHING MACHINE.

No. 338,442.

Patented Mar. 23, 1886.



WITNESSES:

Theo. G. Hoston.
C. Sedgwick

INVENTOR:

F. E. Richardson
BY *Munn & Co.*
ATTORNEYS.

UNITED STATES PATENT OFFICE.

FREDRICK E. RICHARDSON, OF UNIONTOWN, IOWA.

WASHING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 338,442, dated March 23, 1886.

Application filed March 31, 1885. Serial No. 160,788. (No model.)

To all whom it may concern:

Be it known that I, FREDRICK E. RICHARDSON, of Uniontown, in the county of Delaware and State of Iowa, have invented a new and
5 Improved Washing-Machine, of which the following is a full, clear, and exact description.

The invention relates to improvements in that class of washing-machines in which a collapsible cage for receiving the clothes is
10 employed; and to this end it consists in the peculiar construction and arrangement of parts all as hereinafter fully described, and pointed out in the claims.

Reference is to be had to the accompanying
15 drawings, forming part of this specification, in which similar letters of reference indicate corresponding parts in all the figures.

Figure 1 is a side view of my improved washing-machine, parts being broken out.
20 Fig. 2 is a cross-sectional elevation of the same. Figs. 3 and 4 are cross-sectional views of the hinged cage in different positions.

The box or tub A, supported by the legs B, has two hinged cover-sections, C, which
25 form a peaked top or cover. On each side of the box a lever, D, is pivoted at the same end, and the said levers are united by a cross-piece, E.

To the inner end of each lever D an upright, F, is pivoted, which uprights are united
30 at the top by a cross-piece, G, to the middle of which a downwardly-projecting rod, H, is pivoted, which passes through an opening in the peak of the top of the box A, and has its
35 lower end pivoted to the top of a cage, J, consisting of four sides, K, of wire lattice-work or netting jointed at the edges to form the collapsible cage with the box A.

In one side of the cage J an opening, L, is
40 formed, which can be closed by a sliding or hinged door, M. The bottom hinge-rod of the cage is fixed in the box or tub. The clothes are placed into the cage J. The opening L

and the box A are closed, and the levers D are worked up and down, whereby the cage is
alternately collapsed vertically and laterally, 45 as shown in Figs. 3 and 4. The clothes are thus forced through the suds in the box A in different directions and thoroughly agitated, and all parts are subjected to the action of the
50 suds. The clothes are washed and cleaned in a short time, and are not rubbed, pulled, or beaten.

Having thus described my invention, what I claim as new, and desire to secure by Letters
55 Patent, is—

1. In a washing-machine, the combination, with the box A, and the collapsible cage therein, of the levers D, pivoted to the box, the uprights F, pivoted to the inner ends of
60 the levers D and having the cross-piece G at their upper ends, and the rod H, connected to said cross-piece, and the collapsible cage, substantially as herein shown and described.

2. In a washing-machine, the combination, 65 with the box A, of the hinged top sections, C, the rod H, a frame to which the said rod is connected, and of levers for working the said frame, substantially as herein shown and described.

3. In a washing-machine, the combination, 70 with the box A, having an aperture in its cover, of the collapsible cage J, provided with the door M, the operating-levers D, pivoted to the box, the uprights F, pivoted to the inner ends of the said operating-levers and
75 having the cross-piece G, and the rod H, passing through the aperture of the cover of the box and having its ends pivoted to the said cross-piece G and collapsible cage, respectively, substantially as herein shown and de-
80 scribed.

FREDRICK E. RICHARDSON.

Witnesses:

RODNEY W. TIRRILL,
C. E. SMITH.