

(No Model.)

2 Sheets—Sheet 1.

W. GOFORTH.
WASHING MACHINE.

No. 336,480.

Patented Feb. 16, 1886.

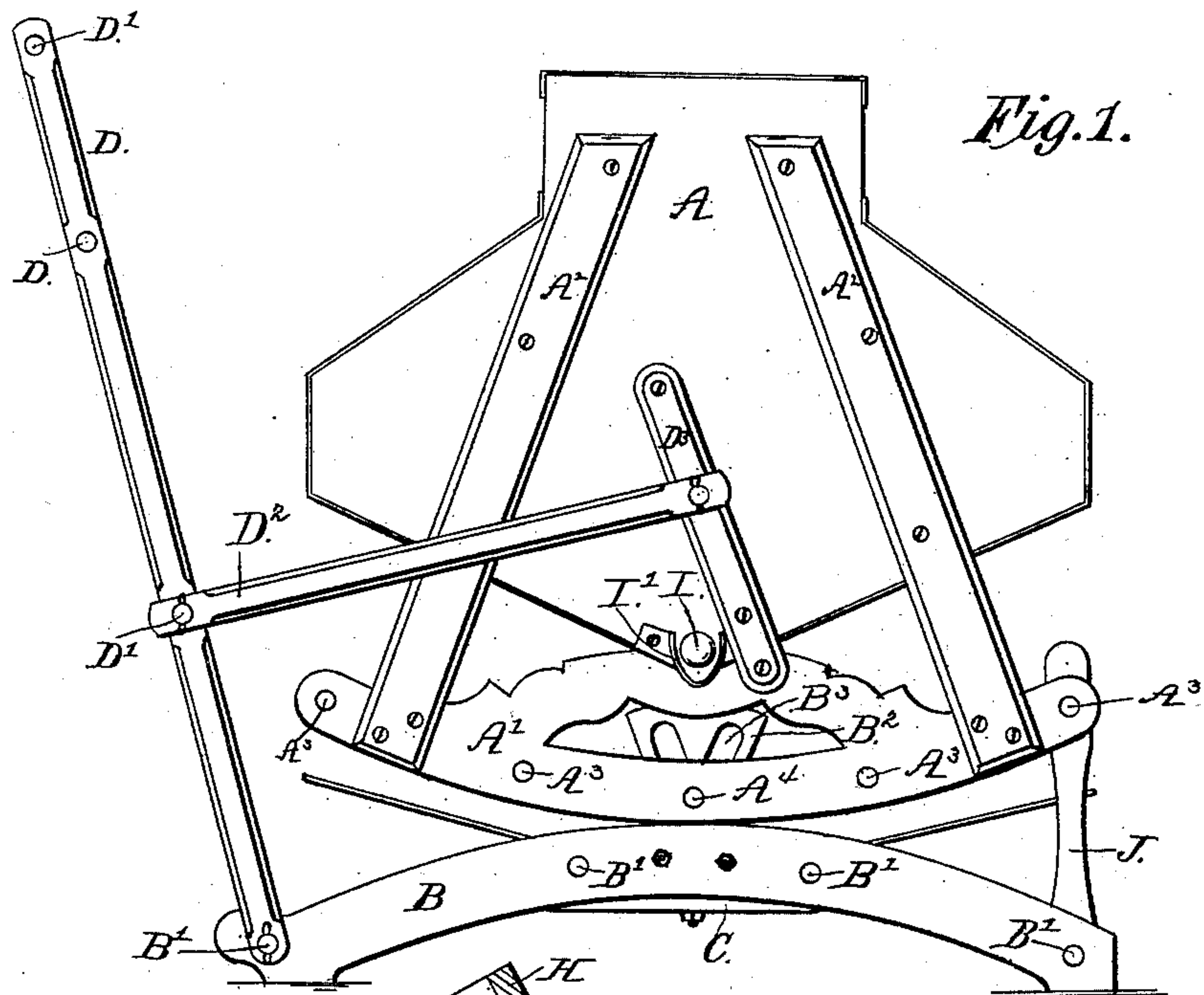


Fig. 1.

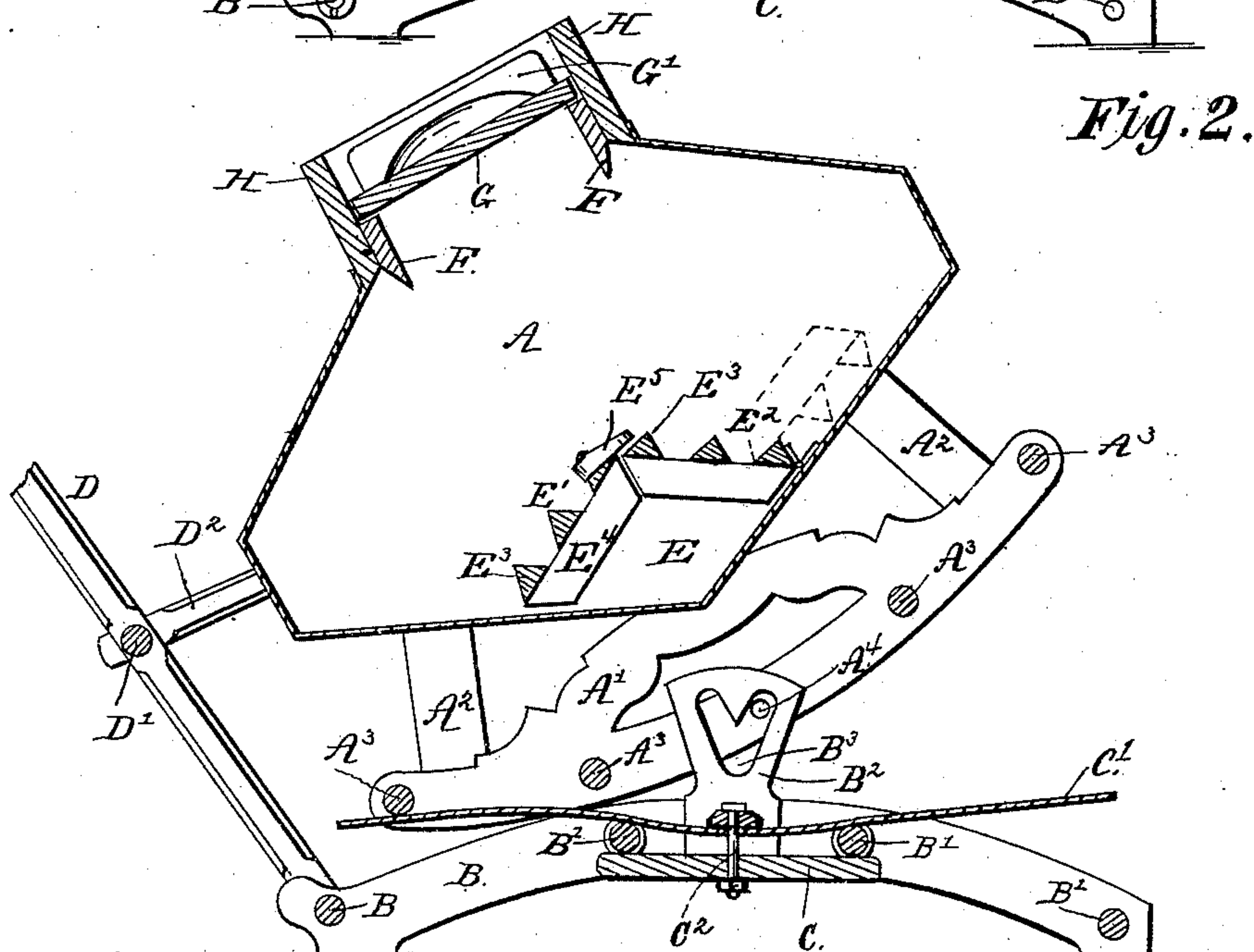


Fig. 2.

Witnesses

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Fig. 3.

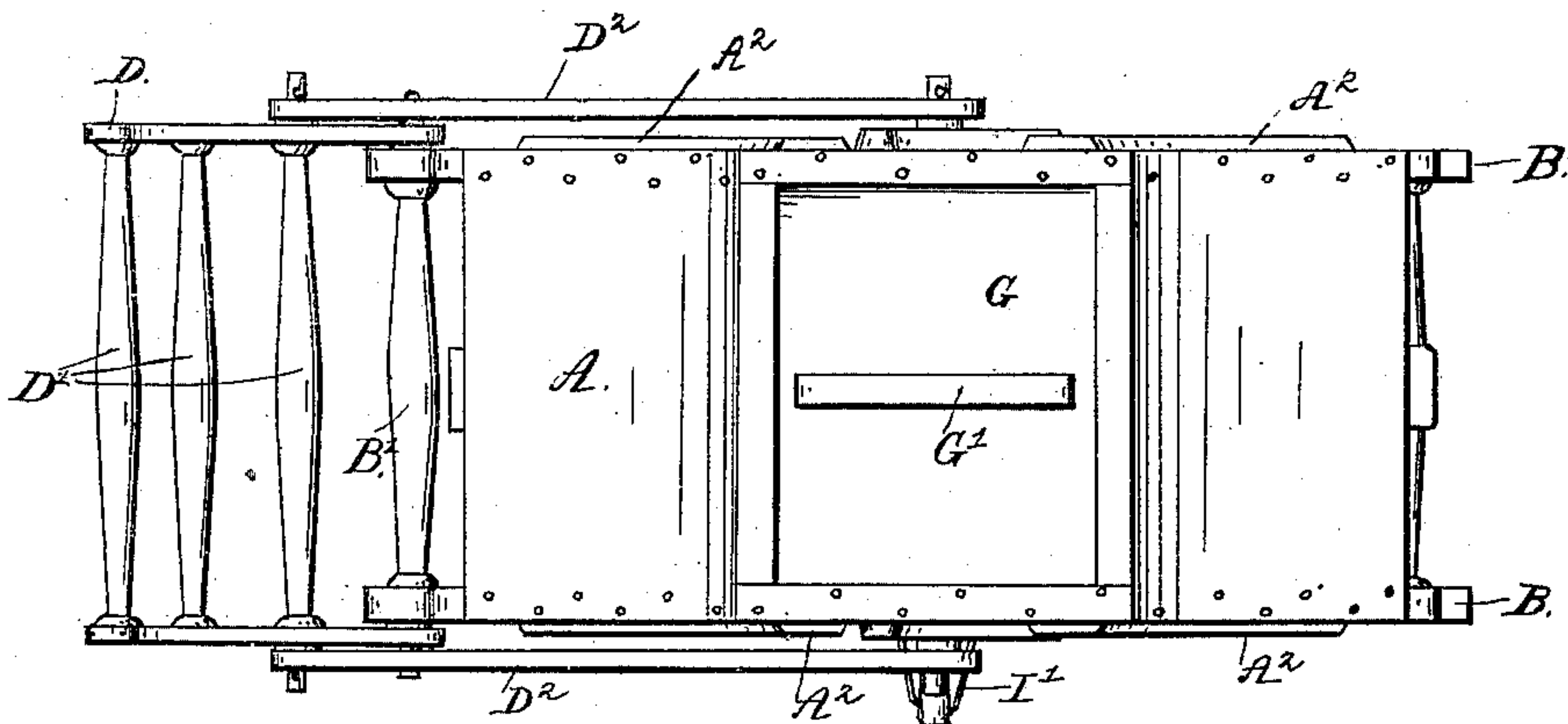


Fig. 4.

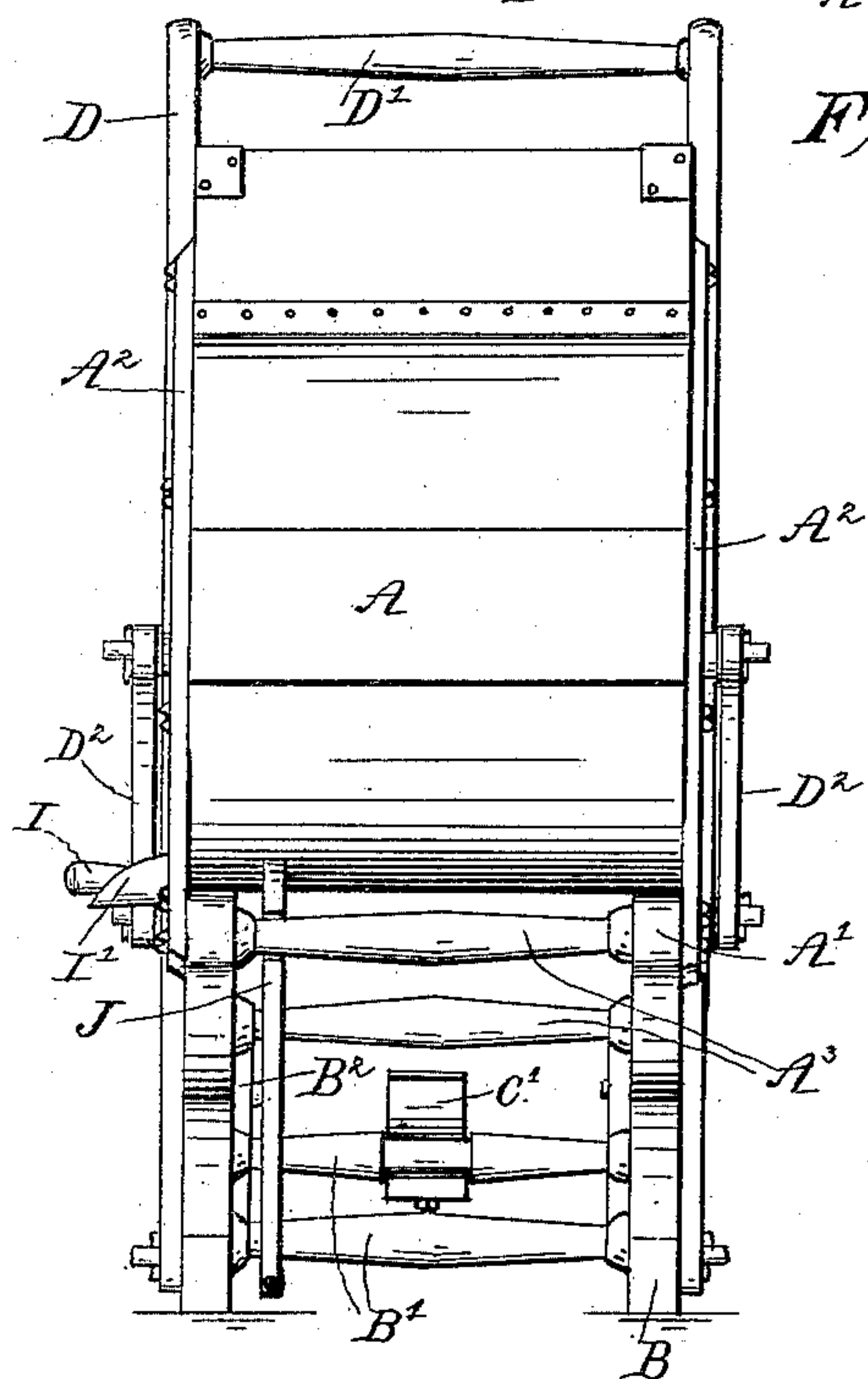
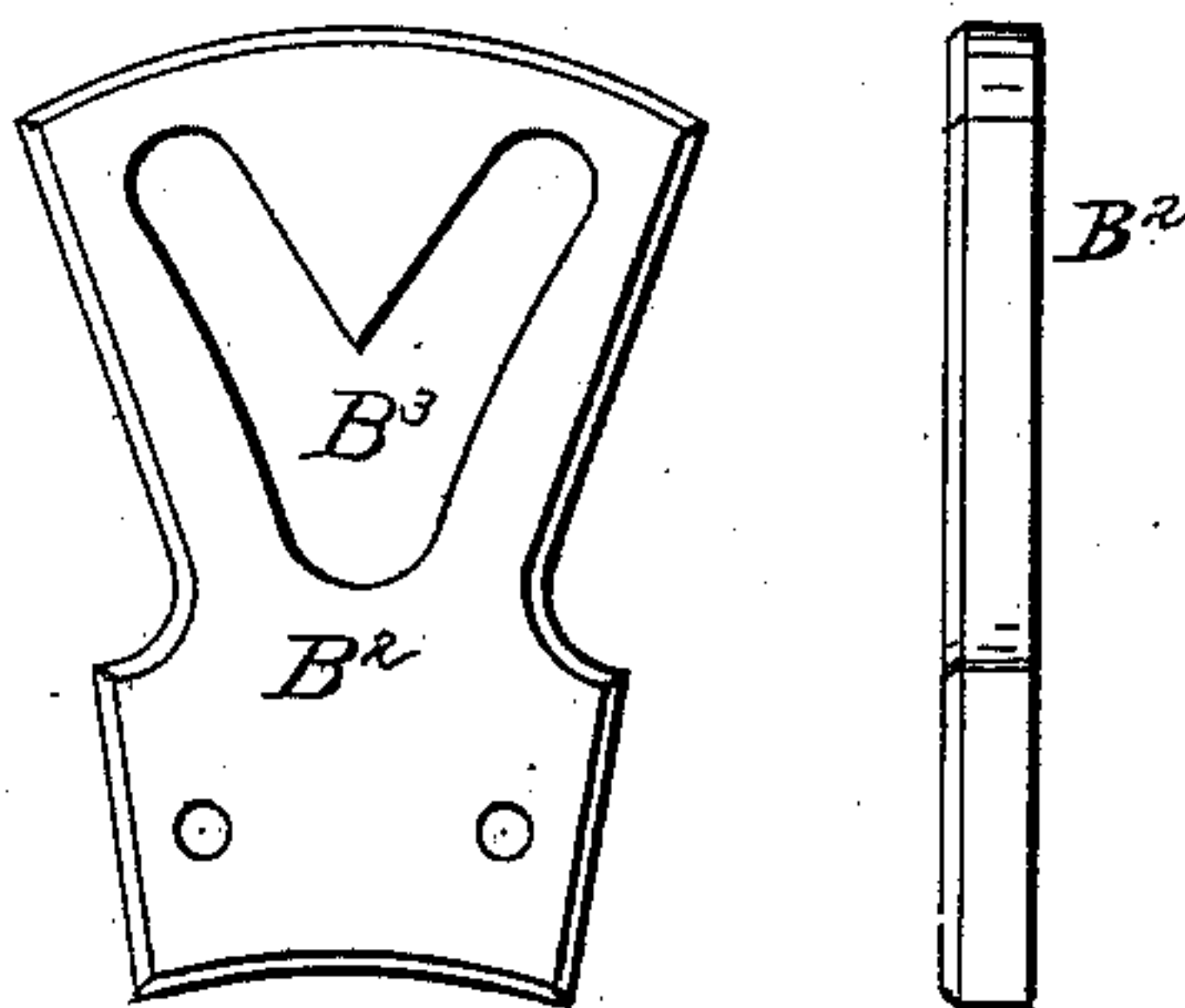


Fig. 5.



Witnesses

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UNITED STATES PATENT OFFICE.

WILLIAM GOFORTH, OF WINDSOR, MISSOURI.

WASHING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 336,480, dated February 16, 1886.

Application filed August 4, 1885. Serial No. 173,523. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM GOFORTH, a citizen of the United States, residing at Windsor, in the county of Henry and State of Missouri, have invented certain new and useful Improvements in Washing-Machines; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters and figures of reference marked thereon, which form a part of this specification.

My present invention relates to improvements in rocking and swinging washing-machines; and it consists in the construction, combination, and arrangement of the parts, hereinafter fully described, and pointed out in the claims.

In the drawings, Figure 1 is a side elevation, and Fig. 2 is a vertical longitudinal section, of a washing-machine constructed according to my invention. Fig. 3 is a plan view, and Fig. 4 is an end elevation, of the same; and Fig. 5 shows in detail the slotted plate which guides the suds-box rockers.

The suds-box A is of the irregular hexagonal form shown. Rockers A' are secured to it by the legs A², as shown. The lowest angle of the bottom of the suds-box rests in a notch in the top of the rockers A', as shown. The legs A² and rockers A' are placed on both sides of the suds-box and are connected by the cross-bars A³. The rockers A' rest upon the convex supports B, which rest upon the floor or ground. The convex supports B are connected by the cross-bars B'. I secure upon the inner side of the convex supports B the plates B², which are provided with the V-shaped slots B³, within which work the pins A⁴, projected inward from the rockers A'. The middle two of the cross-bars B' have secured to their under sides a plate, C. A flat spring, C', which rests upon these cross-bars, is secured to the plate C by a bolt, C². Both ends of this spring are free and are acted upon alternately by the cross-bars A³ at the opposite ends of the rockers A'.

D is the handle or operating-lever, which is journaled or otherwise pivotally secured upon the end one of the cross-bars B', as shown. The handle is composed of two levers con-

nected by cross-bars D', as shown most clearly in Figs. 3 and 4. The handle D is connected to the suds-box by a supplemental lever, D², which is pivotally secured to the handle and to the short legs D³, which are rigidly secured to the suds-box and the rockers A'.

In the bottom of the suds-box, midway the ends, I provide the slatted arch E, which prevents the clothing collecting in a bunch in the bottom of the box. The arch is composed of two sections—a rigid section, E', and a swinging section, E²—each consisting of a series of bars, E³, supported upon ribs or bars E⁴, secured to the side of the suds-box. They are held together, as shown in full lines in Fig. 2, by a button, E⁵, pivoted upon the rigid section E' and overlapping the swinging section. Should any small clothes work under the arch in the operation of the device, they can be readily removed by throwing the swinging section E² into the position shown in dotted lines, Fig. 2.

The top of the suds-box is open for the admission of the water and clothing, and has secured thereto the depending cleats F, which project below the opening in the top of the suds-box and prevent the escape of the water as it will be thrown against them in the operation of the device by the action of the suds-box, and by them will be directed to the bottom of the box.

A lid, G, having handle G', is rested upon the cleats F F, as shown, and said cleats are made of such a size that the sides H of the opening in the top of the suds-box will project sufficiently far above the lid to permit the attachment of the wringer.

I is a plug, fitted into an opening in the side of the suds-box near the bottom, for drawing off the water after the clothes have been washed.

I' is a spout, through which the water flows as it is drawn off.

J is a latch-hook, pivoted upon the cross-bar B' at the end of the supports opposite the handle, and made of a sufficient length to catch over the cross-bar A³ and hold the machine steady when the wringer is being used.

The operation of my device is very simple and will be easily understood. The clothes and suds are placed in the suds-box and the lid placed in position. The latch J is disengaged from the cross-bar A³, and the upper

end of the handle D moved back and forth by the operator. The motion given to the handle D will be communicated through the lever D² to the suds-box, which will thereby be caused to rock. The motion of the suds-box will be limited by the pins A⁴, secured to the rockers A' and working in the slot B³. As one end of the suds-box goes down, the pins A⁴ will ride up that branch of the V-shaped slot B³ nearest the down end of the box. The downward motion of the end of the box will be stopped by the pin A⁴ striking the top of the slot B³. The cross-bar A³, as the end of the suds-box descends, will strike against the end of the spring C', which will tend to throw the suds-box in the opposite direction. This action of the spring, it will be readily appreciated, will decrease the labor necessary to reverse the motion of the machine.

When so desired, a friction-roller may be placed around the end of the pin A⁴; but it is not necessary, as the pin works very easily, and the expense of friction-rollers need not be incurred.

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

1. In a washing-machine, the combination, with the supports having a flat spring secured between and supported by the two middle

cross-bars connecting said supports, of the rockers connected to the suds-box and resting upon the supports, and connected by cross-bars which bear upon the ends of the spring, substantially as and for the purposes set forth.

2. The combination, with the suds-box, of a slatted arch placed in the bottom of the suds-box at its center, composed of a rigid section provided with a button, and a swinging section held to the rigid section by the pivoted button, substantially as and for the purposes specified.

3. The hereinbefore-described washing-machine, consisting of a suds-box having rockers A', rigidly connected thereto, and having pins A⁴ projected from their inner sides, A, supports B, upon which the rockers A' rest, provided with plates B², having slots B³, within which the pins A⁴ work, spring C', suitably sustained between the supports, a handle pivotally secured to the supports and connected with the suds-box by a supplemental lever, and a latch for holding the machine steady when so desired, all arranged and operating substantially as described and shown.

In testimony whereof I affix my signature in presence of two witnesses.

WILLIAM GOFORTH.

Witnesses:

W. T. SHIVEL,
R. M. FUNK.