

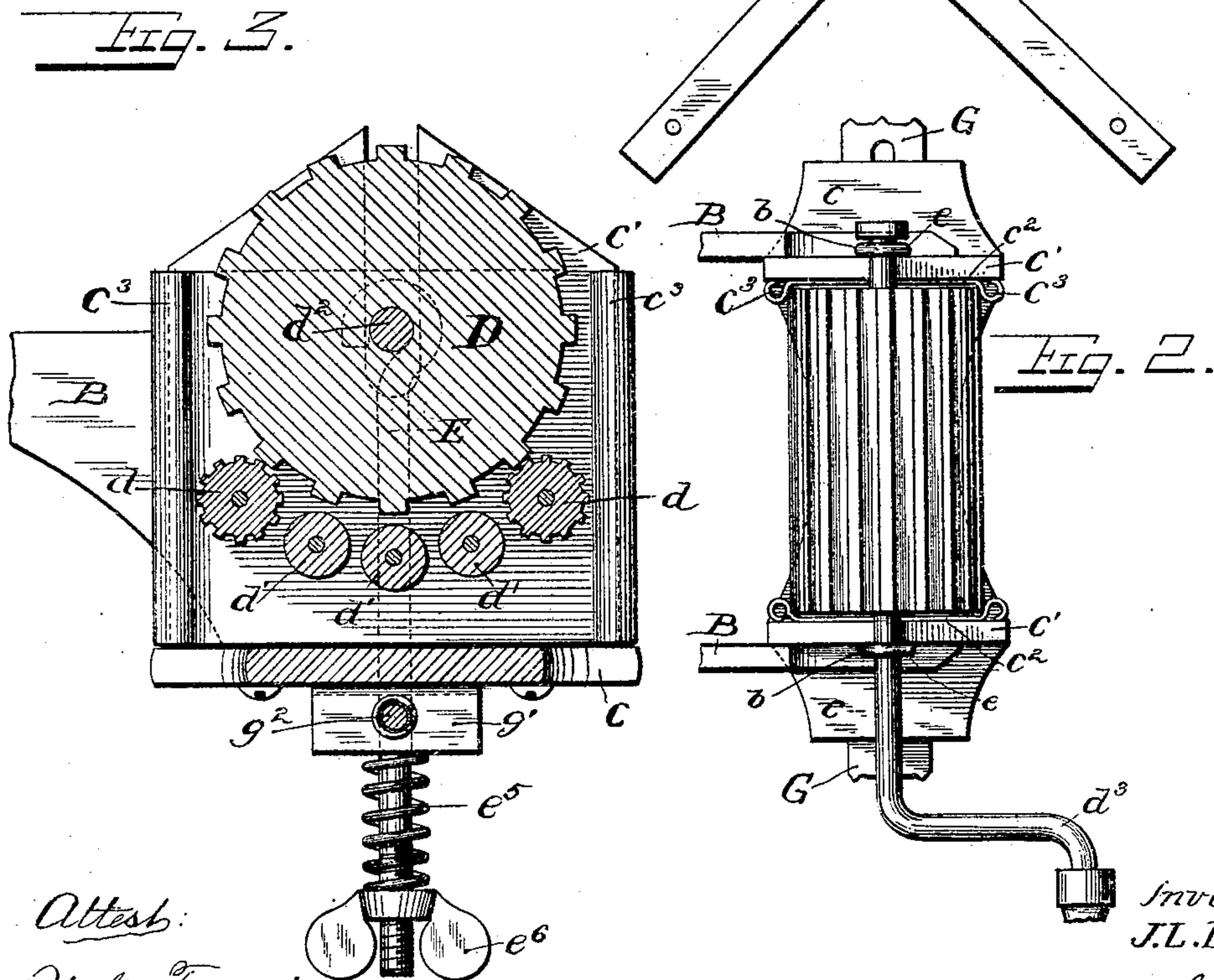
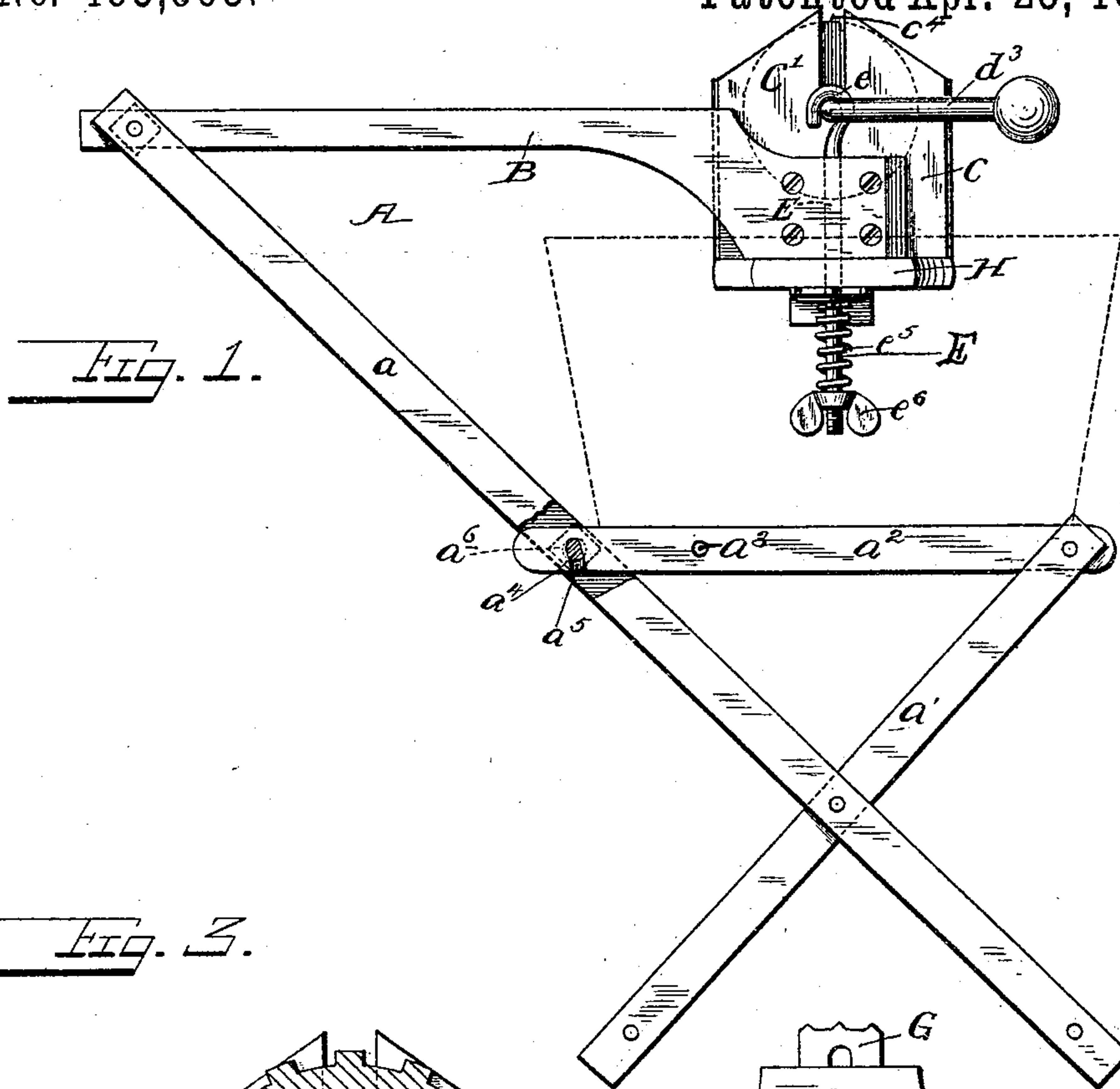
(No Model.)

2 Sheets—Sheet 1.

J. L. DAVIS.
WASHING MACHINE.

No. 495,963.

Patented Apr. 25, 1893.



Attest:

Walter Farnariss
M. E. Lansdale,

Inventor:
J.L.Davis.

By John S. Duffie
Attorney.

(No Model.)

2 Sheets—Sheet 2.

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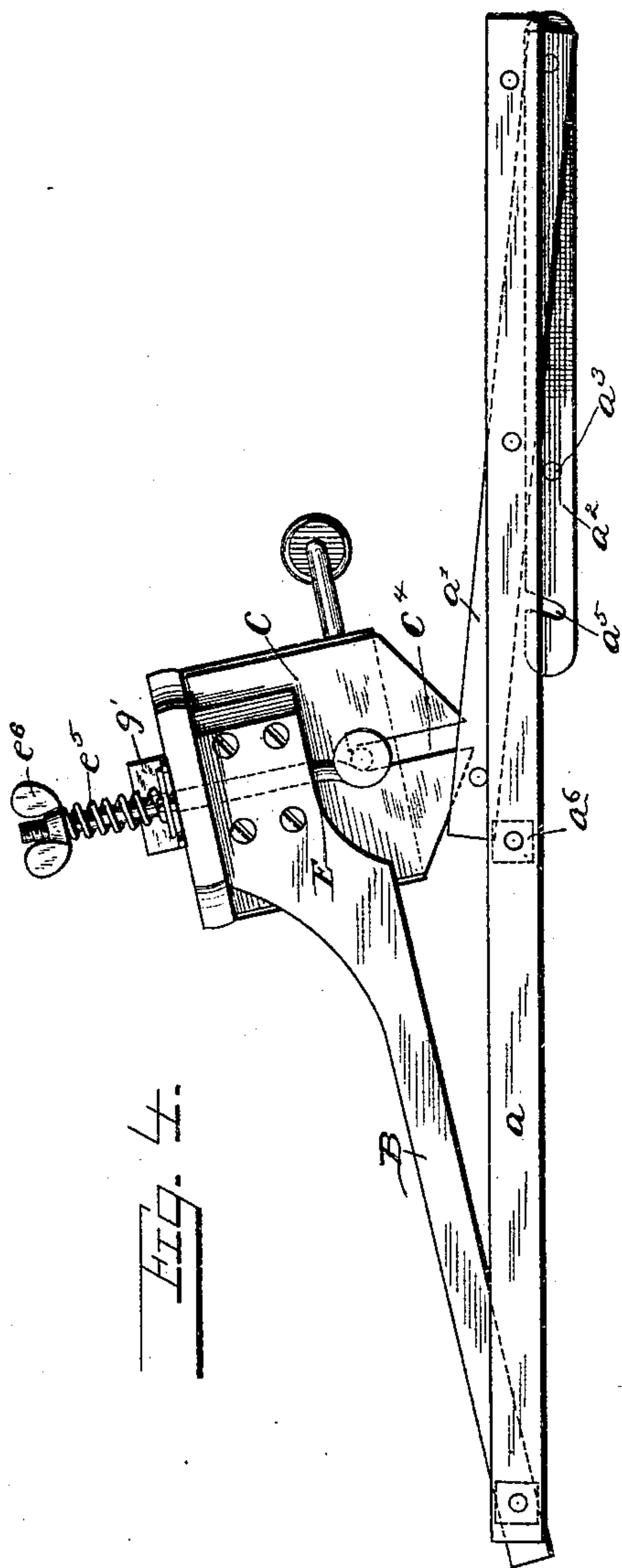


FIG. 4.

FIG. 5.

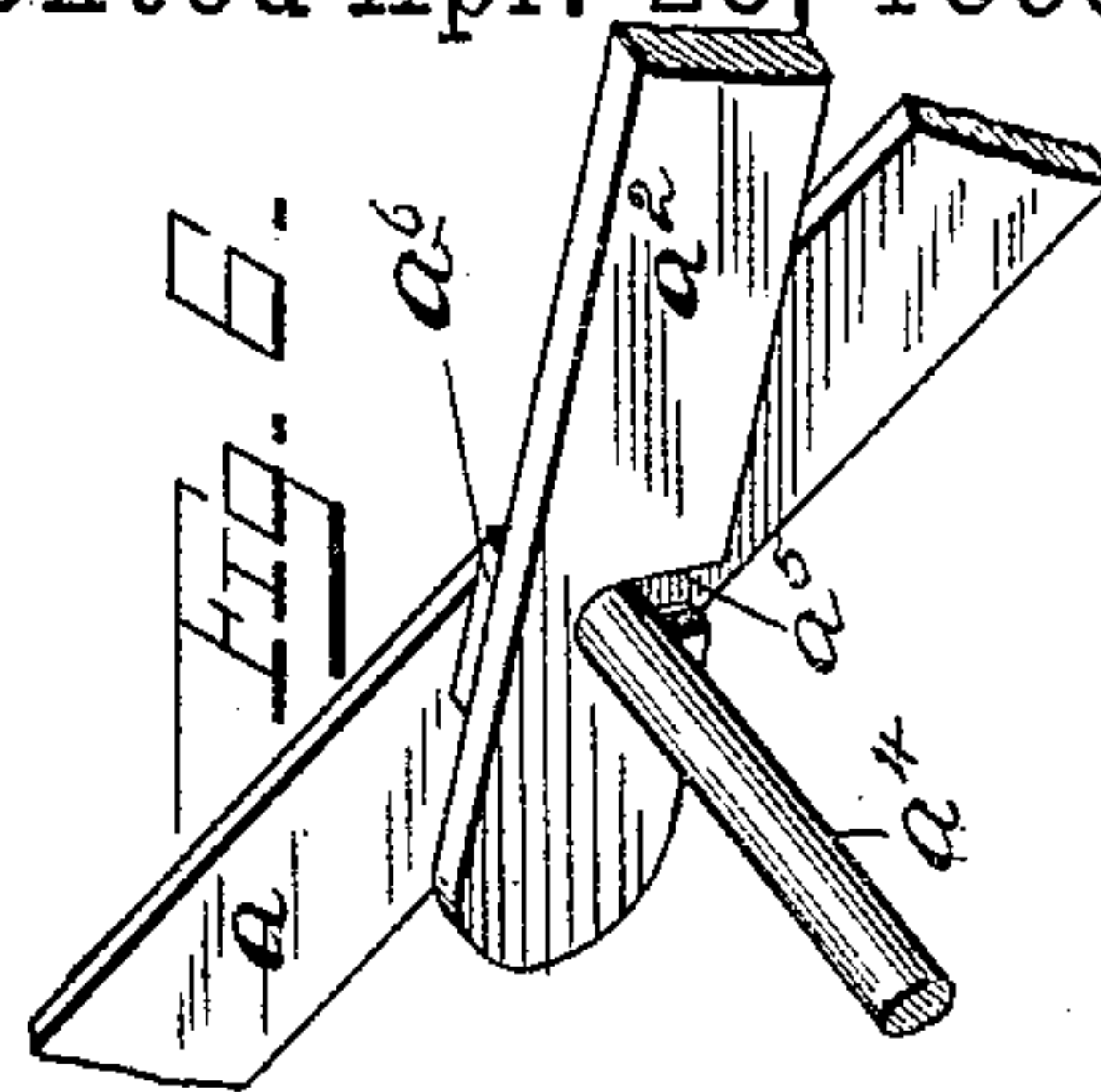
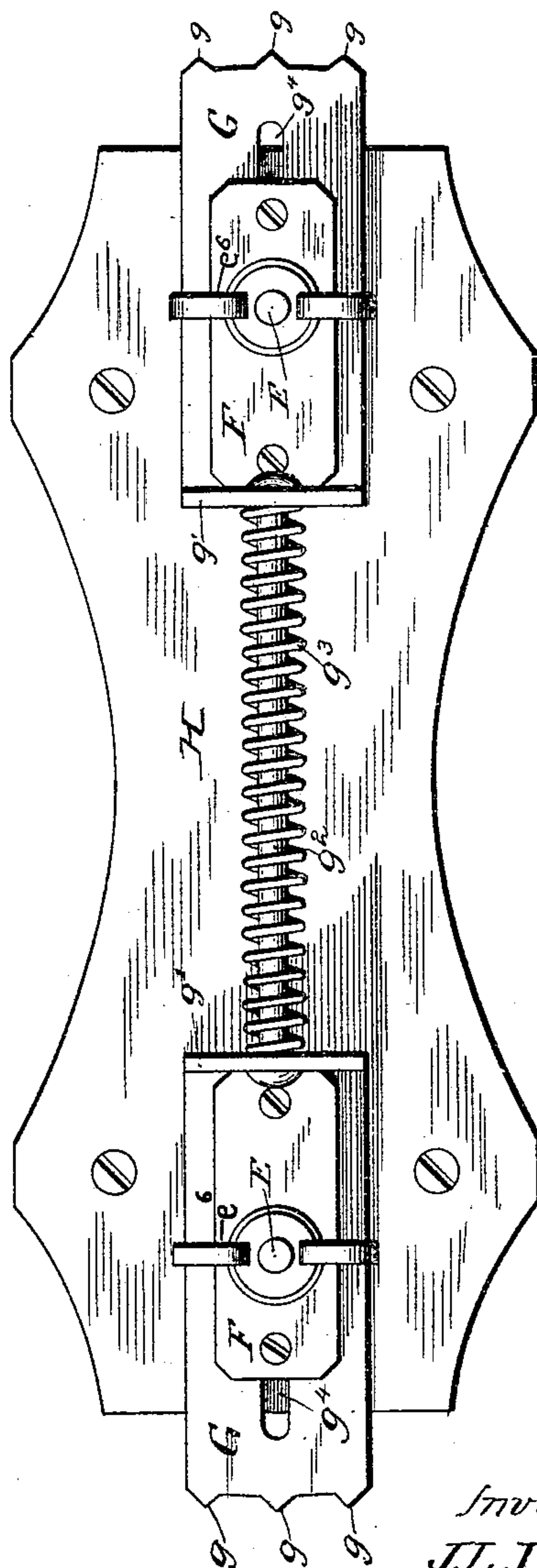


FIG. 6.

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UNITED STATES PATENT OFFICE.

JOHN LAFAYETTE DAVIS, OF ARKADELPHIA, ARKANSAS.

WASHING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 495,963, dated April 25, 1893.

Application filed September 27, 1892. Serial No. 447,044. (No model.)

To all whom it may concern:

Be it known that I, JOHN LAFAYETTE DAVIS, a citizen of the United States, residing at Arkadelphia, in the county of Clark and State of Arkansas, 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 of reference marked thereon, which form a part of this specification.

My invention is a washing machine and consists in the novel construction and arrangement of its parts.

In the accompanying drawings: Figure 1 is a side elevation of my invention. Fig. 2 is a top plan view of the board and rollers. Fig. 3 is a cross sectional view of Fig. 2, enlarged. Fig. 4 is a view of my invention when folded. Fig. 5 is a bottom plan view of the base and holders. Fig. 6 is a detail view showing the manner in which the seat beams, a^2 , rest on and grasp the cross-rod, a^4 .

The main and large roller, D, is about six inches in diameter and the others in proportion. The board consists of five small rollers, three, d' , smooth, and two, d , corrugated. My object in using five small rollers is to have one to use directly under the main roller and thus prevent any choking. My object in using a six-inch instead of a four-inch roller is to lessen the rapid action required in using small rollers, as one revolution with a six-inch roller carries the goods one-fourth farther than one revolution with a four-inch roller. The head blocks are lined with heavy zinc to protect them from spreading and the bearing holes from wearing and at the same time provide fenders to keep the goods from coming in contact with the end of the rollers and head blocks, for said contact is not only a great annoyance but tears the goods being washed.

My tub is adjusted simply by raising the arms, a^2 , that hold the tub and placing the slots, a^5 , over the round, a^4 , inside the washers, a^6 .

My invention is described as follows:

A, is the folding tub-rest machine-holder and consists of the long side beams a , to which

are pivoted foot beams, a' ; to the upper ends of said foot beams, a' , are pivoted seat beams, a^2 , the free ends of which are held in position by cross rod a^3 . On a line with said seat beams, a^2 , when the same are in a horizontal position is secured in said side beams, a , cross rod, a^4 , having washers, a^6 , which fit up against the inside faces of the long beams, a . The object of these washers is to keep the free ends of said seat beams from moving laterally as the manner of building the frame is such that the distance between said seat beams is not so great as between said long beams and the washers fill up the spaces between said beams, the free ends of said seat beams are provided with notches, a^5 , which rest over the cross rod, a^4 .

Between the upper ends of long beams, a , are pivoted beams, B, the free ends of which are enlarged, and between them is secured the washing device, C. Said washing device consists of a base board, H, on the upper face and near each end of which are secured head pieces, c' ; these head pieces, c' , are lined with sheets of zinc, c^2 ; the ends of these sheets of zinc are turned so as to form at each end a cylinder, c^3 , two at each end and at each side of the rollers so that the material being washed cannot work in at the ends of the rollers and thus become entangled and torn. Said end pieces, c' , and sheets, c^2 , are provided with slots, c^4 , to form bearings for the shaft of the main roller and the perforations to form bearings for the five small rollers. The "board" of the washing device consists of five small rollers; the two outside ones, d , are corrugated while the three inside ones, d' , are smooth, and the center one is immediately under the center of the large roller. Said five rollers are stationary. The large roller, D, is secured on a shaft, d^2 , which is journaled in the slots, c^4 ; both ends of said shaft, d^2 , extend outwardly and beyond the outer faces of the head pieces, c' , and one end of said shaft is bent to form a crank handle, d^3 . Over the extended ends of said shaft are the hook ends, e , of the threaded rods, E. These threaded rods pass down through a slot, b , (see Fig. 2) on the inner face of the beams, B, through base board, H, slotted holders G and plates, F. The plates F, are held in place by screws

which pass through said plates, through the slots g^4 , of the holders G, and into the base H. The office of said plate is to hold the said holders G, in place and form an abutment for the upper end of the spiral spring e^5 . On the lower ends of said rods, E, are spiral springs, e^5 , and thumb screws, e^6 , which arrangement allows roller, D, to play up and down. The nuts are used to regulate the pressure of the roller on the material being washed.

Under the bottom of the base, H, are two slotted holders, G, having teeth, g , to catch against the inner face of the tub. The inner ends of these fasteners are turned down forming flanges, g' . These flanges are perforated and through these perforations is passed and headed a rod, g^2 . Around this rod and between the two said holders is a spiral spring, g^3 , which operates to push the said holders outwardly thus causing the teeth to catch in and against the inner face of the tub. The slots, g^4 , in said holders work on the rods, E, while the said holders work under the plates, F.

The operation of my invention is as follows: The frame seat, A, is opened and the notches, a^5 , of the seat bars, a^2 , are placed over the cross rod, a^4 ; the tub is then set on its seat beams a^2 ; the washing device is then let down into the tub and the holders, G, hold the same steadily in place and the device is then ready for use.

Having described my invention, what I

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

1. A washing-machine comprising the folding frame A, adapted to support a clothes-holding tub and the washing-machine C; washing-machine C, secured to the free end of said frame, and the device for holding the washing-machine in the tub, consisting of the slotted holders G, provided with teeth g ; and perforated flanges g' ; and slots g^4 ; rod g^2 , passing through said perforations and headed; spiral spring g^3 , working around said rod and between said flanges; plates F, holding said holders in place, substantially as shown and described and for the purposes set forth.

2. In a washing machine, substantially as shown and described, the combination of the base board H; slotted holders G, provided with teeth g , and perforated flanges g' , and slots g^4 ; rod g^2 , passing through said perforations and headed; spiral springs g^3 , working around said rod and between said flanges; plates F, holding said holders in place, substantially as shown and described and for the purposes set forth.

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

JNO. LAFAYETTE DAVIS.

Witnesses:

ARMSTEAD BURWELL TAYLOR,
JACK WILLIS WILSON.