

No. 671,436.

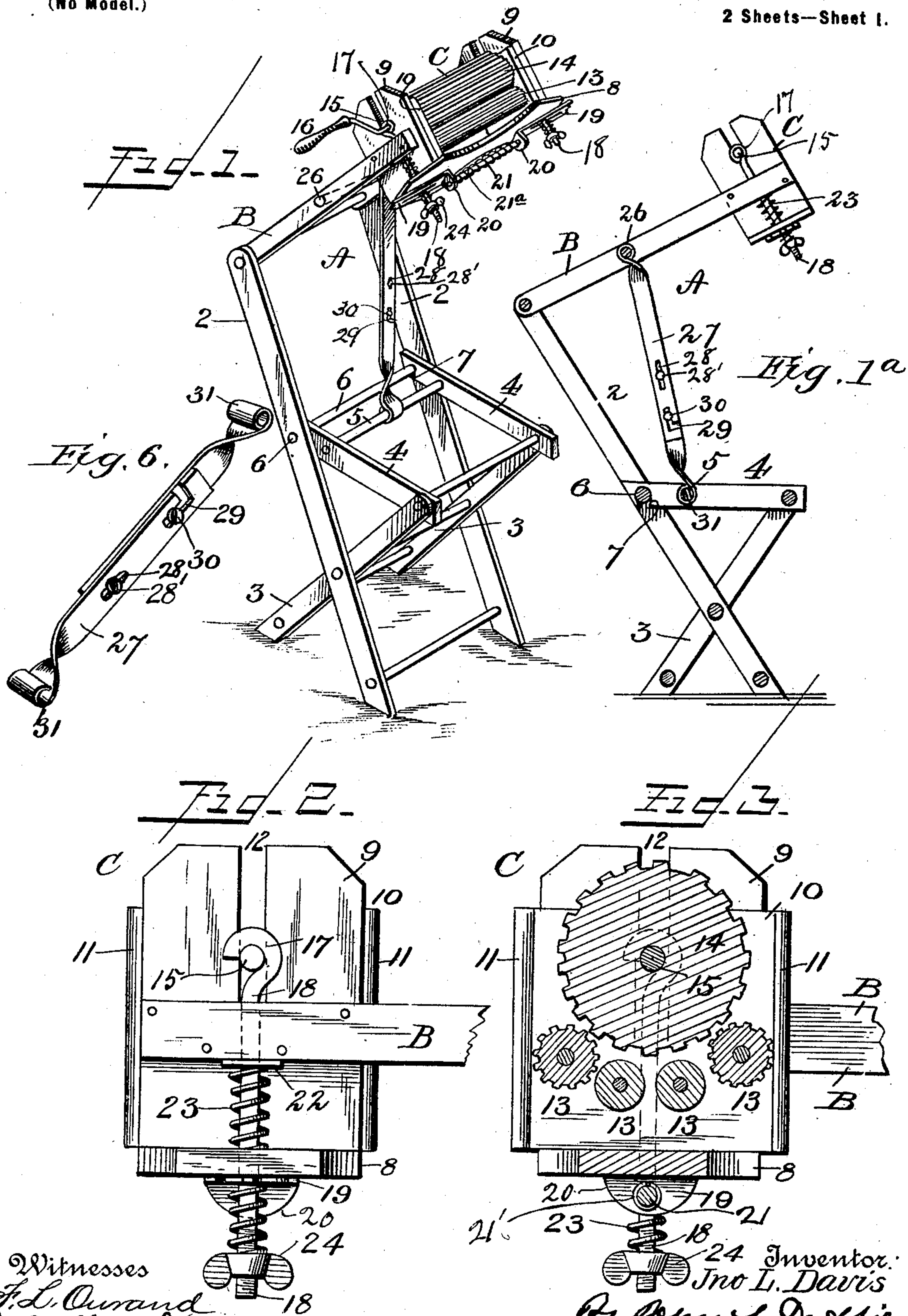
Patented Apr. 9, 1901.

J. L. DAVIS.
WASHING MACHINE.

(Application filed June 19, 1900.)

(No Model.)

2 Sheets—Sheet 1.



Witnesses
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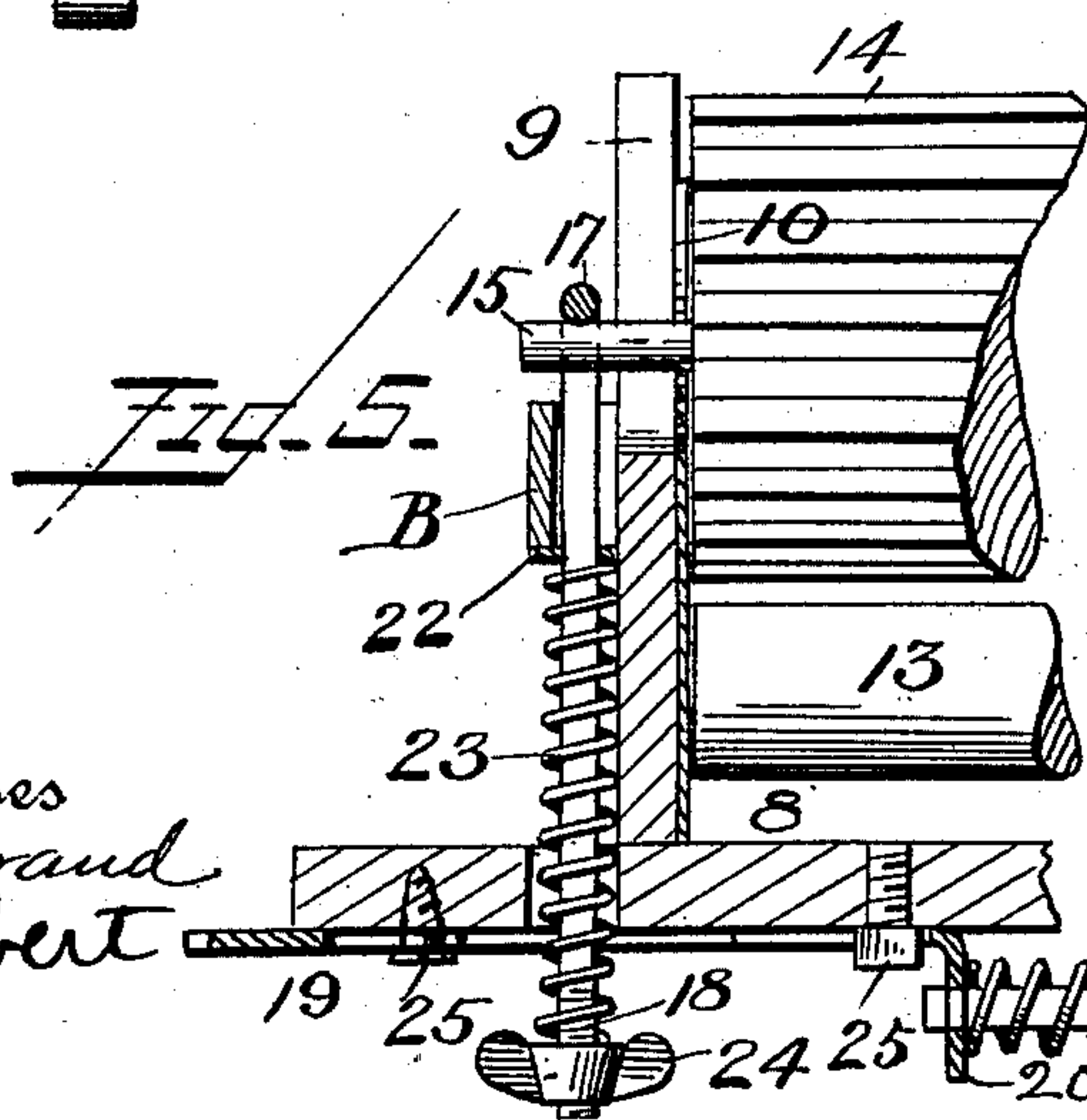
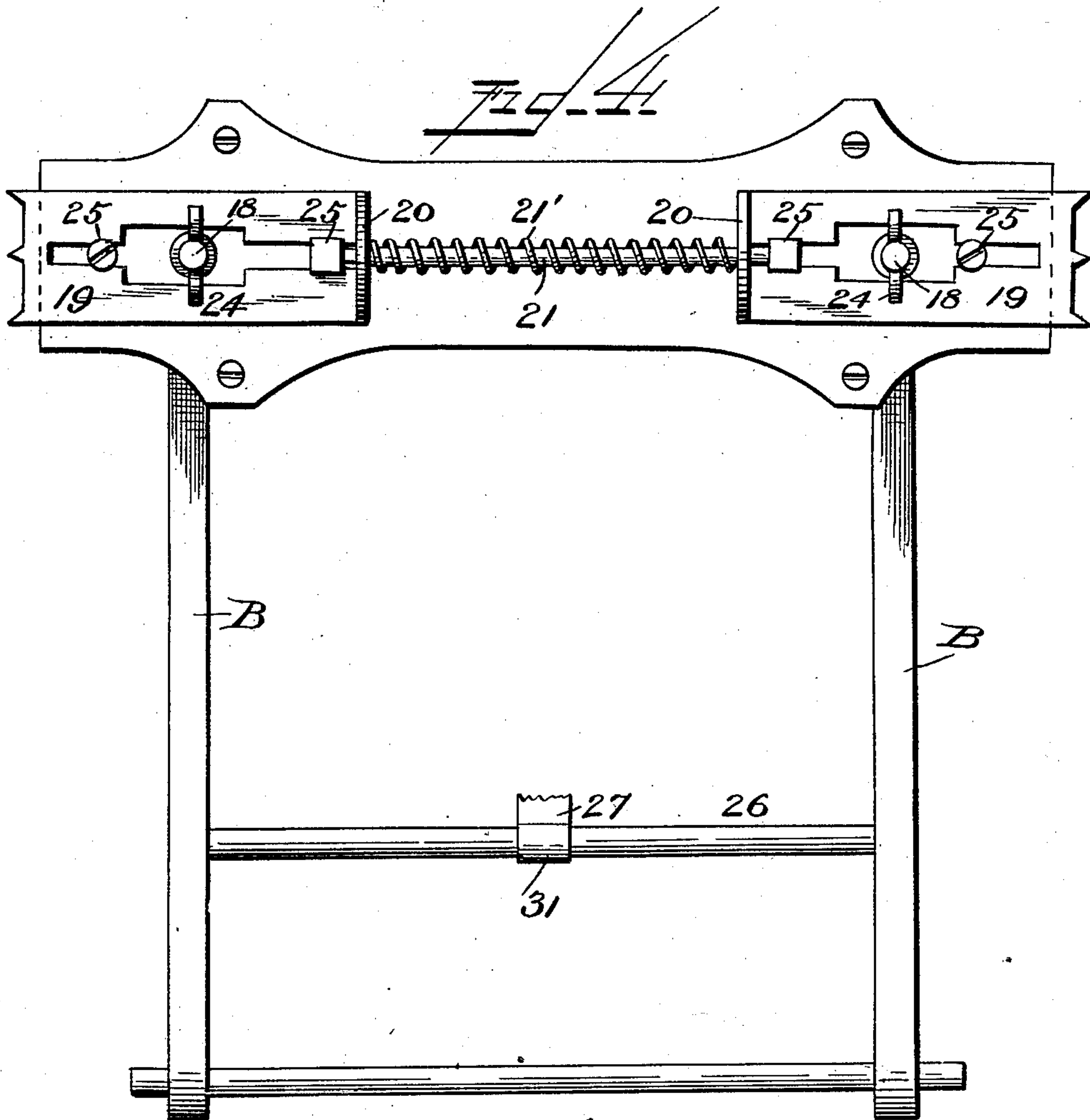
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(Application filed June 19, 1900.)

(No Model.)

2 Sheets—Sheet 2.



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UNITED STATES PATENT OFFICE.

JOHN LAFAYETTE DAVIS, OF ENNIS, TEXAS.

WASHING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 671,436, dated April 9, 1901.

Application filed June 19, 1900. Serial No. 20,835. (No model.)

To all whom it may concern:

Be it known that I, JOHN LAFAYETTE DAVIS, a citizen of the United States, residing at Ennis, in the county of Ellis and State of Texas, have invented certain new and useful Improvements in Washing-Machines; and I do hereby 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.

Figure 1 is a perspective view of my invention. Fig. 1^a is an end view. Fig. 2 is an end view of the washing device. Fig. 3 is a vertical sectional view of Fig. 2. Fig. 4 is a bottom plan view of the washing device and showing the beams B. Fig. 5 is a detail view showing one end of the washing device. Fig. 6 is a perspective view of the brace.

My invention relates to improvements on the patent to J. L. Davis, No. 495,963, dated April 25, 1893.

My invention is described as follows:

A designates the folding frame. The tub which is used in connection with the frame is not shown in the drawings, but was shown in dotted lines in Fig. 1 in said patent.

2 designates side beams, to which are pivoted foot-beams 3. To the upper ends of said foot-beams are pivoted seat-beams 4, the free ends of which are connected by a cross-rod 5. On a line with said seat-beams 4 when the same are in a horizontal position is secured in side beams 2 a cross-rod 6. The free ends of said seat-beams are provided with notches 7, which rest over the said cross-rod 6. Between the upper ends of the side beams 2 are pivoted beams B, between the free ends of which is secured the washing device C. Said washing device consists of a base-board 8, on the upper face and near each end of which are secured head-pieces 9. These head-pieces are lined with sheets of zinc 10. The ends of these sheets of zinc are turned so as to form at each end cylinders 11, 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 head-pieces 9 and sheets 10 are provided with slots 12 to form bearings for the shaft of the main roller and with perforations to form bearings for the small rollers.

The "board" of the washing device con-

sists of four or more small rollers 13. The outside ones are corrugated, while the inside ones are smooth. Said rollers are journaled in stationary head-pieces 9. The large roller 14 is secured to the shaft 15, which is journaled in the slots 12. Both ends of said shaft extend outwardly and beyond the outer faces of the head-pieces 9, and one end of said shaft is bent to form a crank-handle 16. Upon the extended ends of said shaft are hook ends 17 of threaded rods 18. These threaded rods 18 pass down through the grooves on the inner faces of the beams B and through the perforations in the base-board 8 and through the slots in holders 19. The outer ends of these holders are provided with teeth, so as to catch against the inner face of the tub. Their inner ends are provided with flanges 20, which turn out at right angles to the plates. These flanges are provided with perforations, and in these perforations works a rod 21 and around this rod a spiral spring 21', the tendency of which is to push the toothed ends of these plates 19 against the inner face of the tub, and thus hold the washing device in position when the washing is being done.

On the under faces of the beams B are secured perforated plates 22, through which the rods 18 work. Around each one of the rods 18 is a spiral spring 23, the upper ends of which rest against the plates 22 and the lower ends of which against the nuts 24.

The object of the spring 23 is to allow the main or large roller to rise or fall according to the amount of clothing that goes between it and the small rollers.

When a large amount of clothing goes between the rollers, the roller is allowed to rise, and when the amount of clothing is small the springs 23 press it down and keep it tight on the clothing.

In this improvement I have done away with the plates F (shown in the original patent) and hold plates 19 in place by flat-headed screws or bolts 25, and between the beams B, I have secured an additional rod 26, and in order to hold the washing device up when it is necessary to arrange the clothing in the tub I have added to my invention a hinge-brace 27, having a slot 28 and button 28' and a bayonet-slot 29 and button 30, and on each end

of this hinge-brace is turned a sleeve 31. The upper sleeve fits around the upper rod 26, while the lower sleeve fits around the lower rod 5, or it may work on rod 6.

5 When I wish to let the washing device down in the tub, I simply raise it a little and slip the button 30 up to the bayonet-slot 29, and the hinge-brace doubles up like a trunk-hinge, and when I want to set the washing device
10 up again I reverse the operation.

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

15 In a washing-machine a supporting-frame having side beams 4, side beams B pivoted to said frame, a washing device carried by the

beams B, brace-rods 5 and 26 secured between the beams 4 and B respectively, a hinged brace 27 one section of which is provided with slot 28 and bayonet-slot 29, and the other with 20 buttons 28' and 30 working in said slots, each section being provided with a sleeve 31, one surrounding rod 5 and the other rod 26, said brace adapted to hold the beams B up and to fold to let them down, substantially as shown 25 and described and for the purposes set forth.

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

JOHN LAFAYETTE DAVIS.

Witnesses:

L. L. SESSIONS,
PHELPS TERRY.