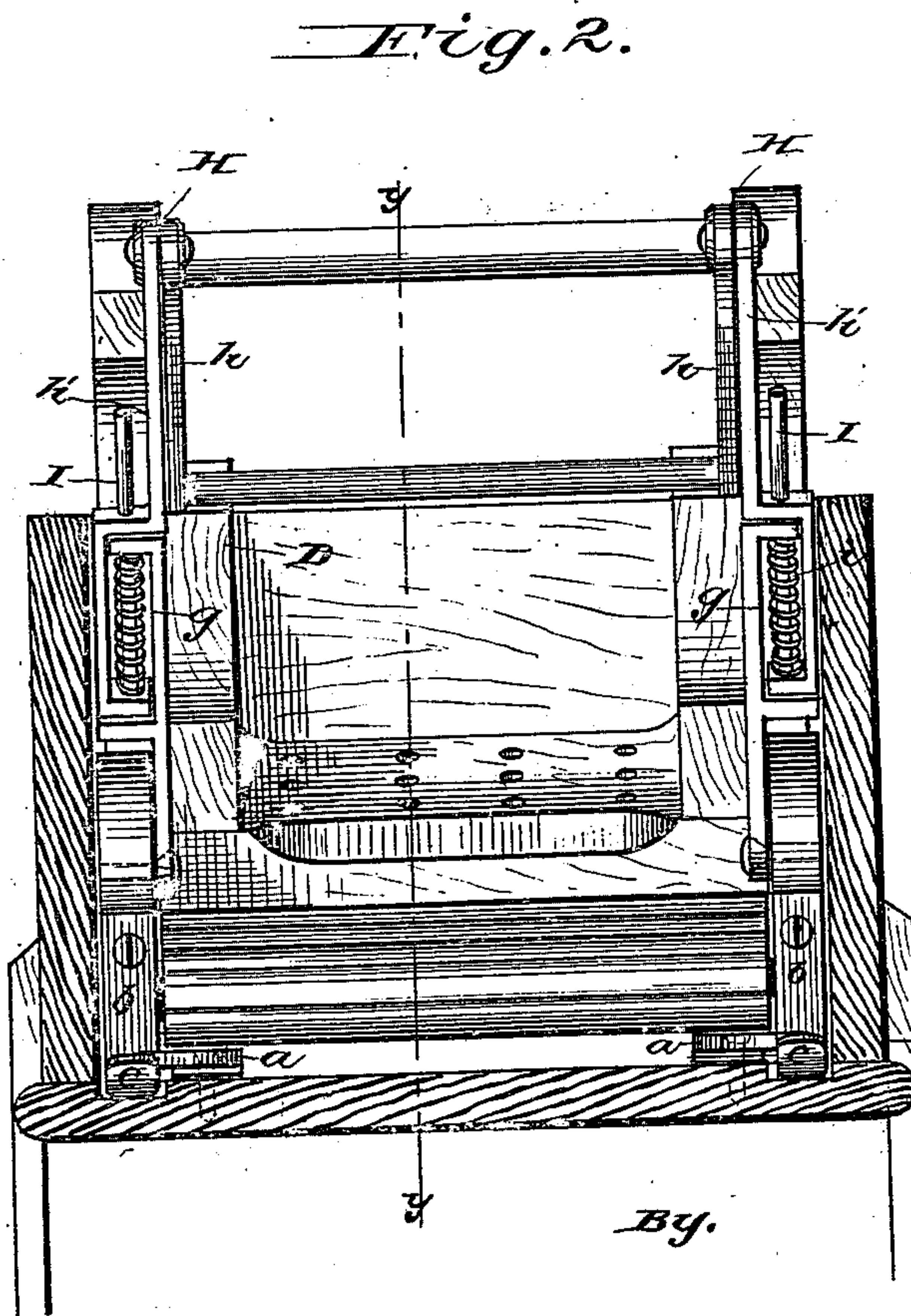
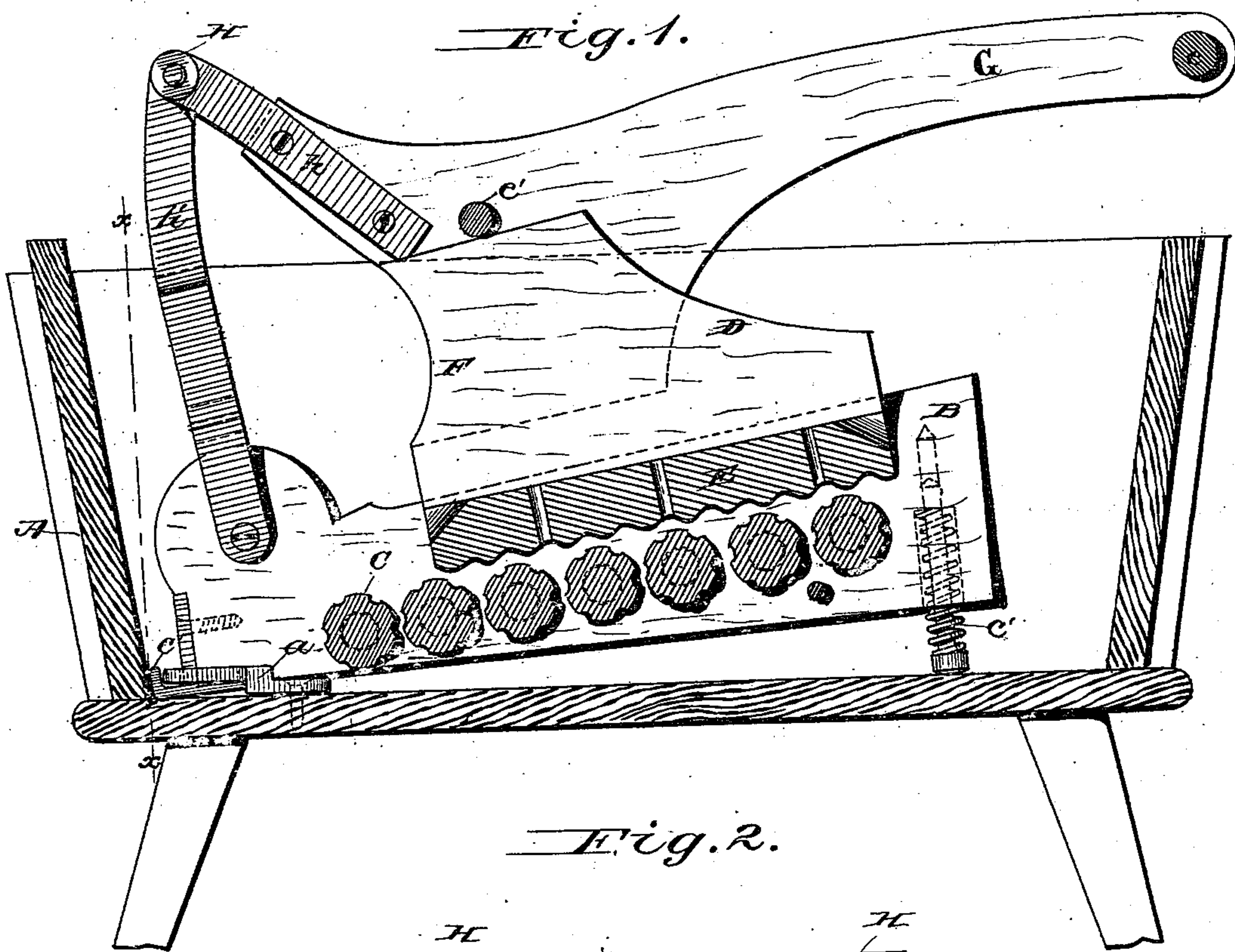


T. S. ANWAY.
Washing-Machine.

No. 213,086.

Patented Mar. 11, 1879.



Attest:
H. L. Perrine,
Att. Houq.

By.

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Fig. 3.

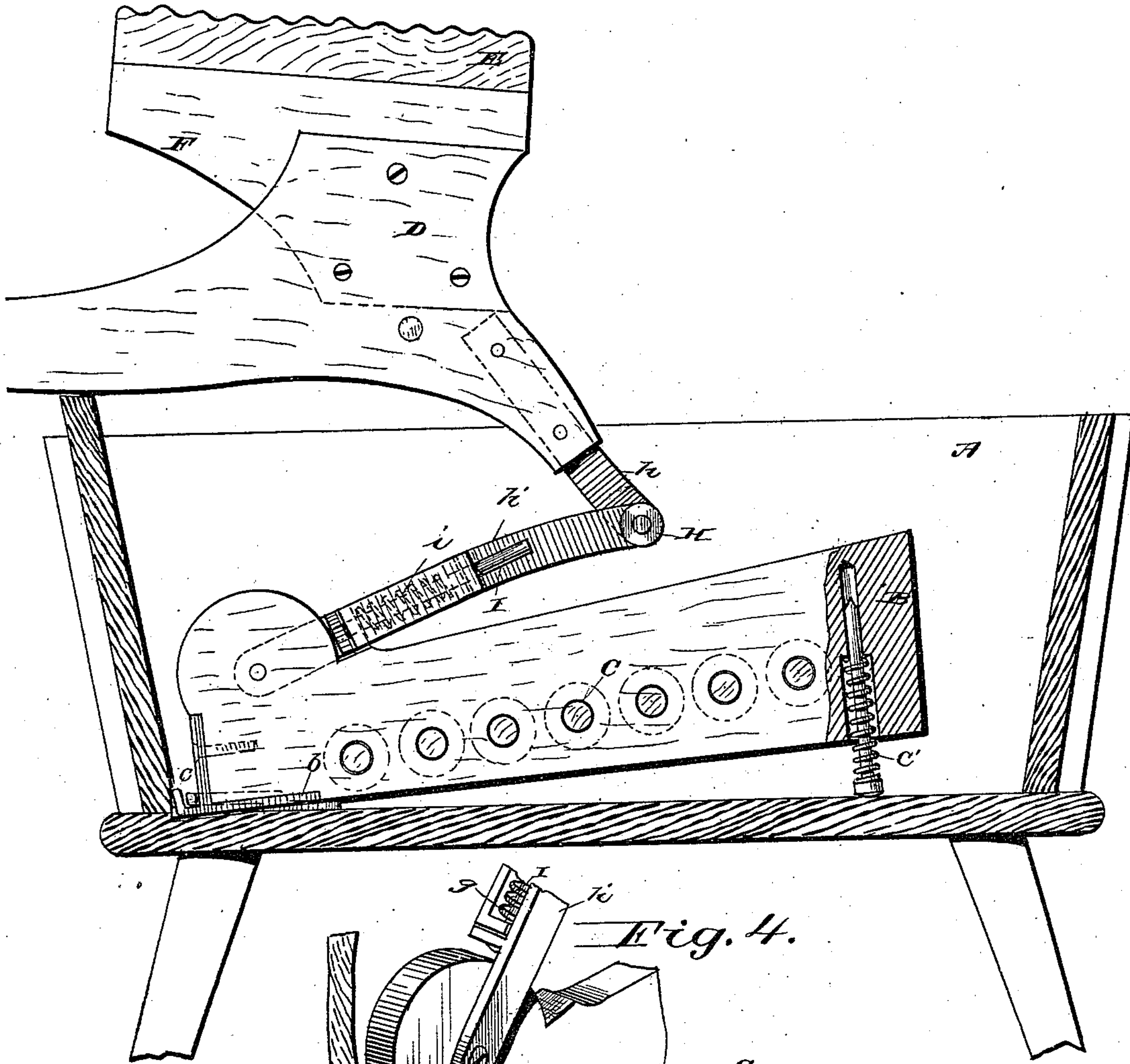
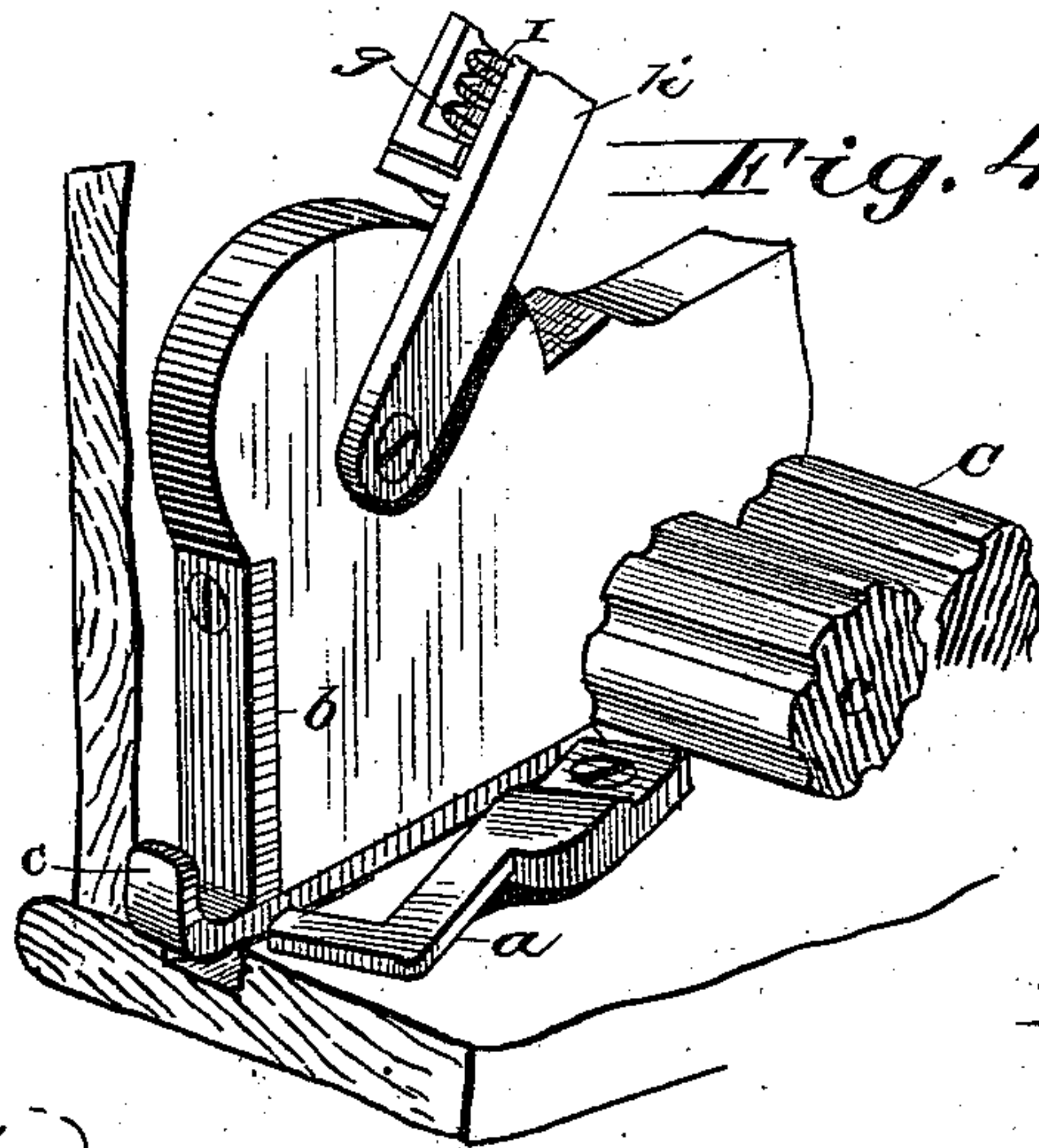


Fig. 4.



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UNITED STATES PATENT OFFICE.

THOMAS S. ANWAY, OF EDENVILLE, NEW YORK.

IMPROVEMENT IN WASHING-MACHINES.

Specification forming part of Letters Patent No. **213,086**, dated March 11, 1879; application filed December 13, 1878.

To all whom it may concern:

Be it known that I, THOS. S. ANWAY, of Edenville, in the county of Orange and State of New York, have invented certain new and useful Improvements in Washing-Machines; and I do hereby declare that the following is a full, clear, and exact description of the invention, which 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 letters of reference marked thereon, which form a part of this specification, and in which—

Figure 1 is a side view of the machine with side of box removed; Fig. 2, a cross-section through *xx* of Fig. 1. Fig. 3 is a longitudinal section through *yy* of Fig. 2, showing the rubber raised; and Fig. 4, a section in perspective, showing the mode of fastening the rubbing device within the box.

My invention has reference to washing-machines; and it consists in the means for attaching the rubbing device to the box-body of the machine; to the connection of the movable portion of the rubbing device to the stationary portion thereof by means of a jointed lever hinged to the stationary portion; to the construction of the jointed lever, whereby one arm thereof is made in sections, and has combined therewith a spring, for purposes hereinafter stated; and also to the combination of parts herein more specifically enumerated.

In the accompanying drawings, the letter A indicates the box-body of the washing-machine, within which the rubbing device is secured by means of buttons *a*, which are made to engage with suitable hooks on the rubbing device. The rubbing device consists of two parallel sides, B, having fluted rollers C, extending from one side to the other, and secured to both at or near the bottom thereof. To the lower corner of one end of both sides there are attached angle-irons *b*, which have, as a part thereof, hooks *c*. When the frame thus constructed is set within the box-body, the buttons *a* are turned over or into the hooks *c*, and firmly secure the frame to the box. At the other ends of these sides, from the bottom thereof, extend spiral springs *c'*, which give elasticity to the frame and its rollers when the device is in operation.

The remaining parts of this rubbing device consist of a frame, D, the bottom E of which is perforated, and has a corrugated rubbing-surface, and from the sides F of which the arms or handle G extend. These arms are stayed by rods *e e'*, and to the sides of the same frame the arms *h* of a hinged lever, H, are immovably fastened, while the other arms, *h'*, of the same lever are hinged to the angle-ironed end of the sides D. These arms *h'* are made in sections, both sections being formed so that one part thereof shall form the three sides of a parallelogram, in order that when the two parts are brought together they will form a parallelogram or box, *g*, one portion of which shall be capable of being raised or lowered in the direction of the length of the box or parallelogram. Through this box from top to bottom there is passed a rod, I, the lower end being secured to the stationary section of the box, while the other end passes through and terminates above the upper end of the movable section of the box, so as to form a guide-rod for the same; and around this rod, within the box, there is placed a coiled spring, *i*, one end of which bears against the lower end of the movable section of the box, while the other end bears against the upper end of the stationary section, so that when the movable section is raised the spring is compressed, and when the pressure is released the spring assumes its normal state, and carries down with it the movable section of the box.

Operation: The upper frame is elevated; the clothes are laid on the fluted rollers, after which the frame is lowered and moved backward and forward, rubbing the clothes. The springs on the bottom of the lower frame yield to the pressure from above, giving an elasticity and a natural rubbing motion to the clothes, while the springs to the hinged lever yield to the pressure on the upper frame, and give a uniform heavy or light yielding pressure from above; and as more pressure is usually applied in pushing the rubber from you than when drawing it toward you, the motion, by reason of the hinged lever with its spring, conforms to that of the human knuckles on wash-boards.

The clothes can be moved either forward or backward, as desired; for, the lever being sec-

tional, one section being hinged to the lower frame, the upper frame can be raised from contact with the clothes, and, when brought to the forward part of the machine, lowered onto the clothes, and they pushed to the other end; or the motion may be just the reverse, thus obviating the necessity of touching the clothes with the hands, and permitting the rubbing of the most soiled parts until they may be perfectly cleaned.

The rubbing device can be removed from one box and secured to another by simply turning the buttons from off the hooks on the lower sides.

Having described my invention, what I claim is—

1. The jointed and sectional lever H, constructed as described, and provided with rod I and spring *i*, in combination with frame D and rubber B, substantially as described.

2. The rubber B, provided with hooks *c* and springs *c'*, in combination with frame D and the jointed and sectional lever H, provided with rods I and springs *i*, substantially as set forth.

3. The combination of the frame D, the levers H, constructed as described, the sides B, provided with fluted rollers, hooks *c*, and springs *c'*, and the body A, provided with buttons *a*, substantially as set forth.

In testimony that I claim the foregoing as my own I affix my signature in presence of two witnesses.

THOMAS S. ANWAY.

Witnesses:

LE GRAND MEAD,
WM. J. SLY.