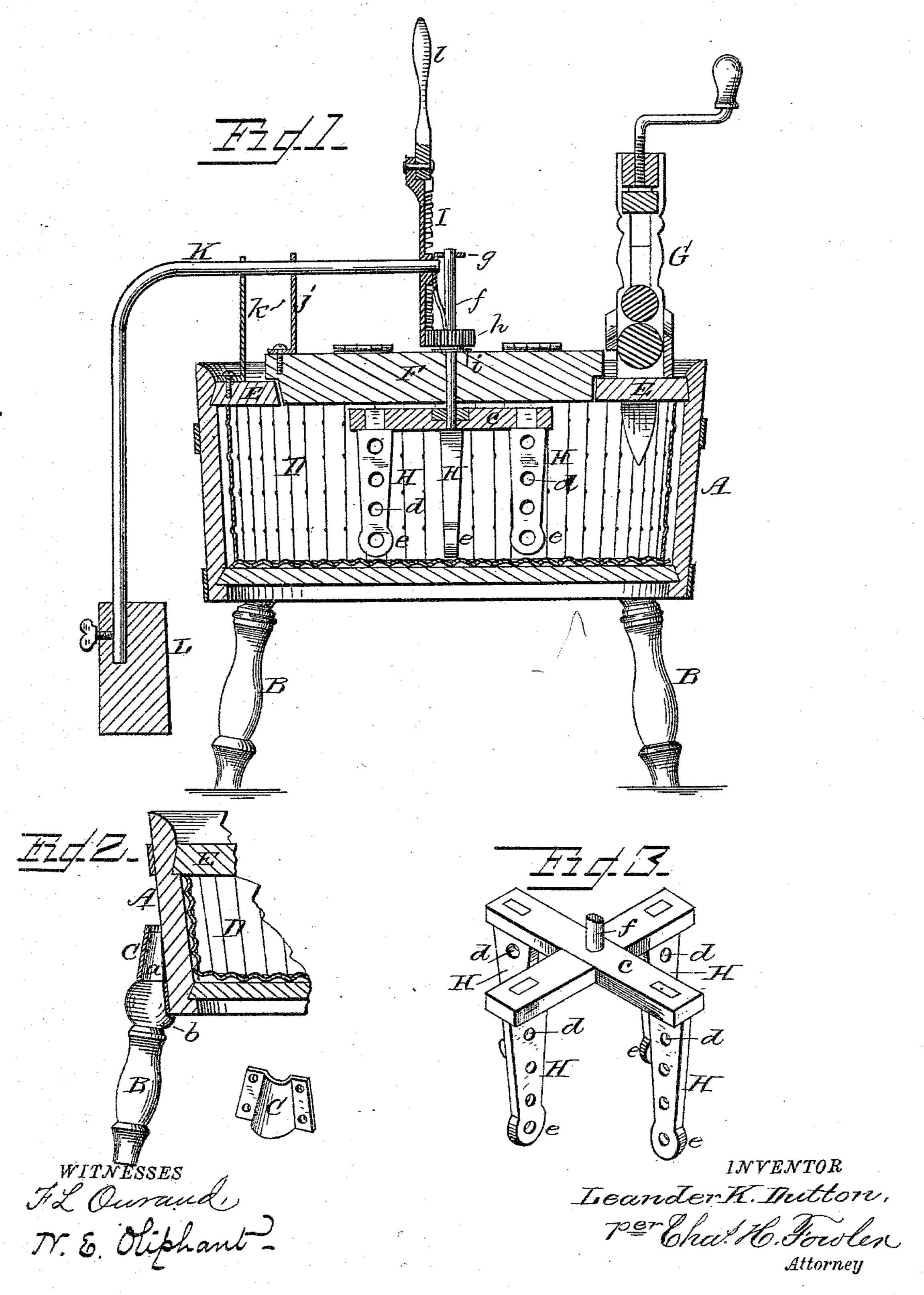
(No Model.)

L. K. DUTTON.

WASHING MACHINE.

No. 274,473.

Patented Mar. 27, 1883.



United States Patent Office.

LEANDER K. DUTTON, OF OSKALOOSA, IOWA.

WASHING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 274,473, dated March 27, 1883.

Application filed September 27, 1882. (No model.)

To all whom it may concern:

Be it known that I, LEANDER K. DUTTON, a citizen of the United States, residing at Oskaloosa, in the county of Mahaska and State of 5 lowa, 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 same, reference being had to the annexed drawings, to making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawings is a sectional elevation of a washing-machine constructed in accordance with my invention. Fig. 2 is a detail 15 view, showing the manner of connecting the legs to the suds-tub; and Fig. 3, a detail view,

in perspective, of the stirrer.

The present invention has relation to certain new and useful improvements in washing-ma-20 chines; and the object thereof is to provide means whereby the most delicate fabrics can be thoroughly washed without danger of tearing or otherwise injuring them; also, to improve the general construction of the machine 25 and rendering it easy of operation, simple in its parts, and effective in its purpose. These several objects I attain by the construction substantially as shown in the drawings, and hereinafter described and claimed.

In the accompanying drawings, A represents the suds-tub, supported by legs B, which have shanks a and shoulders b. The shanks a fit into socket-plates C, secured to the side of the tub A, near its bottom, and when thus secured 35 in place in the sockets the under rim or edge of the tub rests on the shoulder b, as shown in Fig. 2, thus taking the weight of the tub off the socket-plates and preventing any strain thereon which would otherwise tend to wrench • 40 them from their fastenings. The legs B are readily detachable from their socket-plates, thus enabling the machine to be more conveniently packed for transportation or taking up less room when not in use. The tub A, upon 45 its interior sides and bottom, has secured to it a corrugated rubber lining, D, which has horizontal as well as vertical corrugations or ribs.

By the employment of rubber as a corrugated lining for the wash-tub, instead of wood, 50 or a lining of rigid, inflexible, or unyielding material, it will be readily seen that the most delicate laces and other fine fabrics of light and

delicate texture can be successfully washed without danger of wearing, tearing, or otherwise injuring them, as the rubber will yield to 55 any great pressure when the fabric is brought in contact with it. As the corrugations in the lining are formed by molding the rubber in sheets, it is evident that a very smooth as well as elastic surface is obtained, there being no 65 hard or rough edges to come in contact with the fabric.

The tub A has an inwardly-extending circumferential support, E, and to this support is hinged a cover, F, and removably connected 65

a suitable wringer, G.

A stirrer-head, c, has suitably connected to it stirrers H, having a series of holes, d, and circular ends e, to prevent any sharp corners from coming against the clothes when being 70 taken around by the stirrers. The holes d in the stirrers H, when the latter are rapidly reciprocated, will cause jets of water to pass into and through the clothes or fabrics, thereby rendering them more effective in their purpose, 75 and in connection with the corrugated rubber lining providing means whereby the finer class of fabrics can be acted upon without in the least injuring their texture.

The stirrer-head c has connected to it a rod, 80 f, which extends up through a hole in the cover F, the end thereof having its bearing in a suitable bracket, g, connected to the upper side of the cover. The rod or shaft f has a horizontal toothed pinion, h, rigidly connected to it and 85prevented from coming in contact with the

cover by a suitable washer, i.

A drive-wheel, I, has suitable teeth, which engage with those of the pinion h, and has a handle for operating it, by which means the 90 reciprocating motion is imparted to the stirrers H. The drive-wheel I is keyed to the horizontal end of a rod, K, which has its bearings in the bracket g and bracket j upon the cover. A third bracket, k, is secured to the 95 support E, and has an open bearing for the rod K, so that when the cover F is required to be raised the rod will not prevent it, but will be lifted as the cover is being raised out of its bearing. This rod K is of sufficient length to 100 extend over and beyond the outer side of the tub A, and from that point extends down in a vertical direction to near the floor, and has an adjustable weight, L. Although this rod and

weight are for the purpose of making the operation of the driving-wheel more effective by acting as a counterpoise in bringing the handle l of the drive-wheel back to its normal or upright position, as shown in Fig. 1, both rod and weight have a further object, to retain the cover in a closed position by forming a horizontal extension to the rod which passes along over the top of the tub A to the center of the cover F.

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

In a washing-machine, the suds-box D, pro-15 vided with a lining of corrugated sheet-rub-

ber, and having the internal circumferential support, E, to which is connected the bracket k, in combination with the hinged cover F, stirrers H, and means for operating them, and the rod K, connected to the driving-wheel I, 20 and provided with removable weight L, substantially as and for the purpose set forth.

In testimony that I claim the above I have hereunto subscribed my name in the presence

of two witnesses.

LEANDER K. DUTTON.

Witnesses:

H. H. PIERCE, Wm. A. Delashmutt.