

(Model.)

H. LIGHTY.
WASHING MACHINE.

No. 278,247.

Patented May 22, 1883.

Fig. 2.

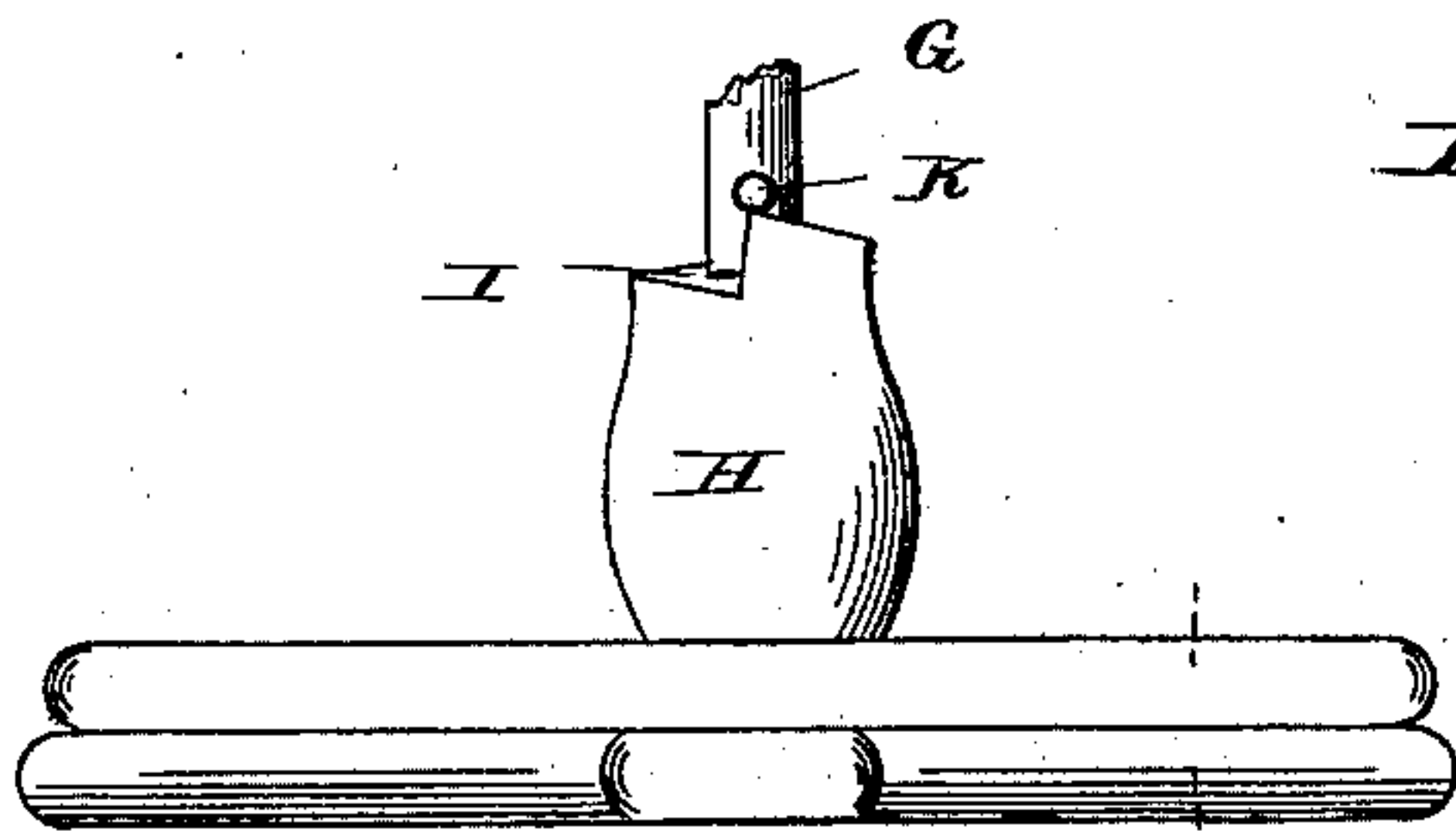


Fig. 1.

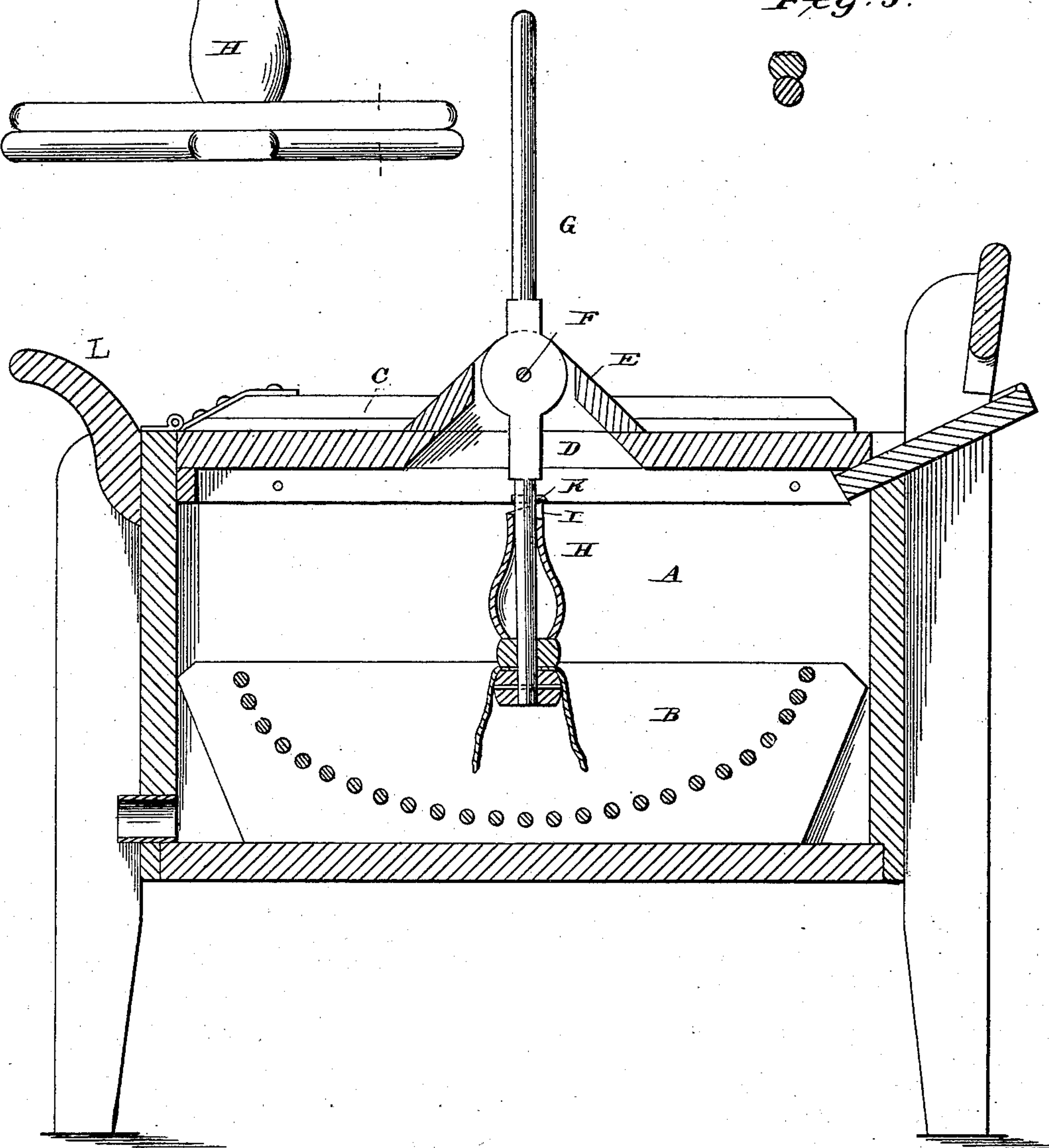


Fig. 3.



Witnesses.

Edwin L. Gevree.
J. J. McCarthy

Inventor.

Henry Lighty.
C. M. Alexander.
Attorney.

UNITED STATES PATENT OFFICE.

HENRY LIGHTY, OF ROSSVILLE, INDIANA.

WASHING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 278,247, dated May 22, 1883.

Application filed September 28, 1882. (Model.)

To all whom it may concern:

Be it known that I, HENRY LIGHTY, of Ross-ville, in the county of Clinton, and in the State of Indiana, have invented certain new and use-
ful Improvements in Washing-Machines; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, making a part of this specification.

This invention has for its objects to provide an improved washing-machine by means of which clothing and other articles may be subjected to a rubbing action against a suitable wash-board, similar to the action of the hand rubbing in ordinary washing, so as to thoroughly cleanse the articles without injury to the same, as more fully hereinafter specified. These objects I attain by the means illustrated in the accompanying drawings, in which—

Figure 1 is a longitudinal vertical section of my improved machine; Fig. 2, a detached side elevation of the rubbing-head and clamping devices, and Fig. 3 a cross-section of the rubbing-head.

In the said drawings, the letter A indicates a rectangular vessel or tub, which is lined with sheet metal—such as zinc—to prevent leaking. In the bottom of said vessel or tub is located a frame, B, having a series of transverse rubbing-bars, which are arranged in a semi-elliptical line, in order to subject the clothes to a squeezing as well as a rubbing action as they are carried to the ends of the frame. The tub is provided with a hinged top, C, which has a slot, D, through it, and bearings E at each side for the pin F, which extends through the rubber-staff G, which is located in the slot in such manner that the staff may be conveniently oscillated. To the lower end of the staff is secured a rubber-head

consisting of two bars, one attached rigidly and the other loosely to the shaft. Above the upper bar, which is loosely attached to the shaft, is a loose sleeve, H, mounted on the said shaft. The upper end of said sleeve is provided with an inclined bearing, and the staff with a pin, K, against which the bearing abuts, so that by turning said sleeve the upper bar may be forced toward the lower bar in order to clamp the clothes between the two.

To operate my improved machine the cover is thrown back on its hinges until it rests upon the arm L. The water and other materials are then placed in the tub and the clothes are clamped in the rubber-head. The cover is then closed down and fastened, and the washing is effected by oscillating the rubber-staff. The rubbing-bars in the frame at the bottom of the tub, being elevated above the bottom, permit the dirt to settle and collect below the clothes.

Instead of the inclined bearing, a spiral spring may be employed to clamp the rubber-head.

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

The combination, in a washing-machine, of the tub or vessel A, the slotted top secured thereto, the rubber-shaft G, mounted on a shaft journaled in bearings in the top, the hollow sleeve H, having inclined bearings, the pin K, and the clamping-bars between which the clothes are secured, the whole constructed and arranged substantially as specified.

In testimony whereof I affix my signature, in presence of two witnesses, this 22d day of August, 1882.

HENRY LIGHTY. [L. S.]

Witnesses:

H. S. SMITH,
W. F. MERRILL.