

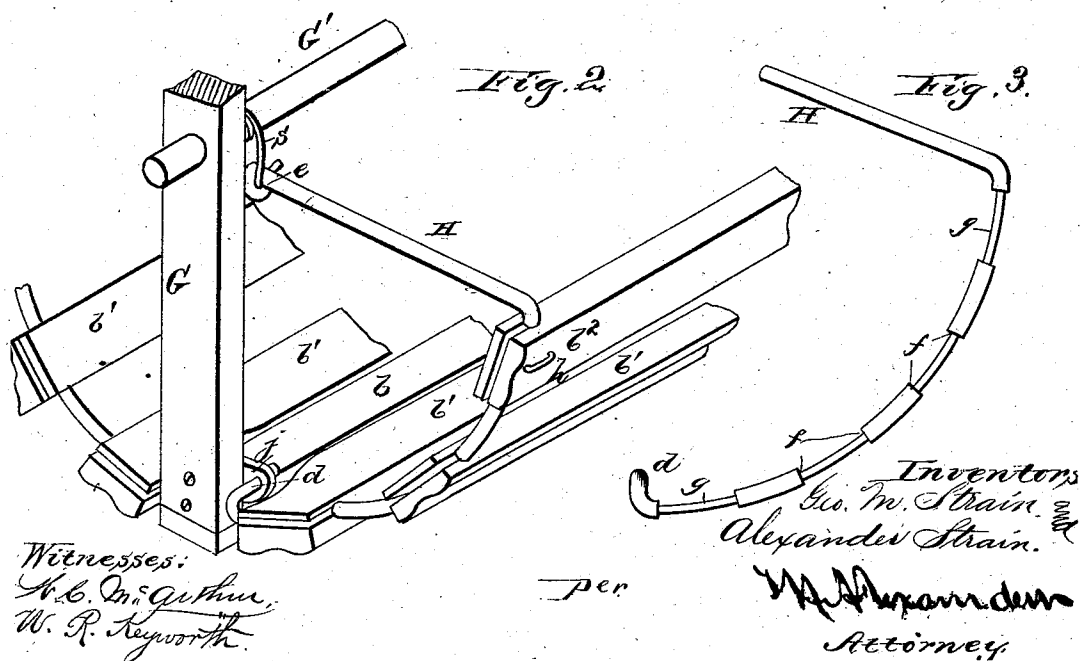
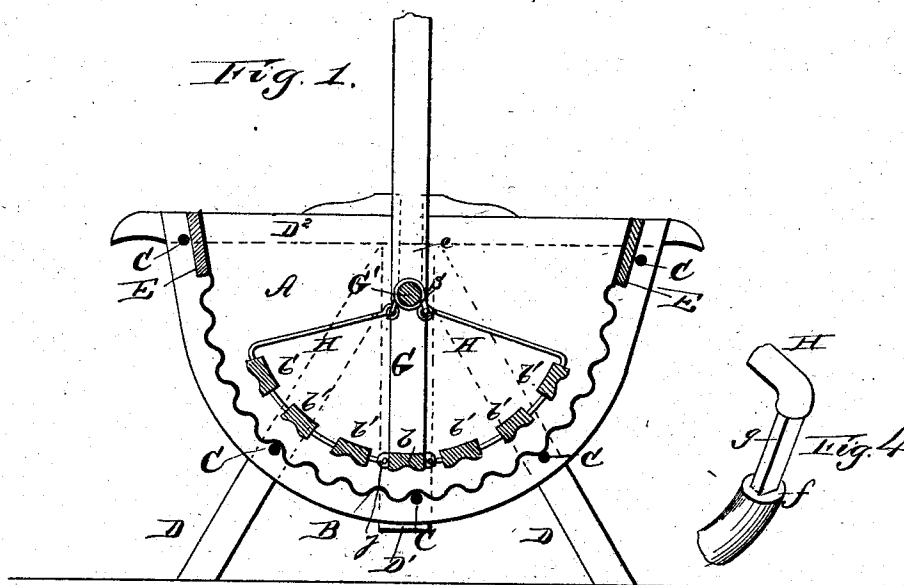
(No Model.)

G. M. & A. STRAIN.

WASHING MACHINE

No. 259,240.

Patented June 6, 1882.



UNITED STATES PATENT OFFICE.

GEORGE M. STRAIN AND ALEXANDER STRAIN, OF HARRODSBURG, IND.

WASHING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 259,240, dated June 6, 1882.

Application filed February 20, 1882. (No model.)

To all whom it may concern:

Be it known that we, GEORGE M. STRAIN and ALEXANDER STRAIN, of Harrodsburg, in the county of Monroe and State of Indiana, have invented certain new and useful Improvements in Washing-Machines; and we 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, which form part of this specification.

This invention relates to washing-machines wherein a semi-cylindrical tub is used in combination with a vibrating rubber.

In the annexed drawings, Figure 1 is an elevation of one side of the improved machine. Fig. 2 is an end view of the rubber. Fig. 3 is a vertical transverse section through the machine. Fig. 4 is a detail perspective view of part of the rod H.

The following description of our invention, when taken in connection with the annexed drawings, will enable others skilled in the art to understand it.

A A designate the two wooden semicircular sides of the suds-tub; and B, the corrugated sheet-metal bottom, the corrugations of which extend from one side of the tub to the other. The edges *a a* of this metal bottom B are parallel to each other, and they are received into indentations made in the sides A A by forcing the latter against said edges by means of strong bolts C, arranged outside of the tub and in close relation to the bottom thereof.

D D are the inclined legs; D' D', vertical intermediate battens, and D² D² bars, which are arranged along the top edges of the sides A A. These pieces form strengthening-battens, and they receive through them the bolts C, on which washers and nuts are applied. It will be seen that by the use of a powerful wrench applied to the nuts on the bolts the two sides A A of the tub can be so forcibly pressed against the comparatively sharp corrugated edges of the bottom B as to cause these edges to embed themselves into the wood, and thus form tight joints. In combination with the clamping tie-bolts C we employ bracing-pieces E E, which aid in giving strength and rigidity to the tub.

G G are two parallel arms, connected to-

gether by a bar-handle at their upper ends and by a rubbing-bar, *b*, at their lower ends, and also by an intermediate bar, G', the extremities of which protrude from the sides of the arms and are freely received in vertical grooves *c*, made in the inner surfaces of the sides A A, at the middle of the length thereof.

H H H H designate four segments having hooks *d* formed on their lower ends and turned inwardly, and eyes *e* formed on their upper ends. These segments H are made of metal, and their curved portions are constructed with flattened sides, which leave intermediate shoulders, *f*. The flattened portions *g* of the segments H are fitted into kerfs made in the ends of rubbing slats or bars *b'*. The bars *b'* at the highest portions of the segments are confined in their places by means of staples *h*, as shown in Fig. 3.

The two sections forming the rubber are more or less flexible, and their lower ends are attached by the hooks *d* to eyes *j*, secured to the ends of the rubbing-bar *b*. The upper ends of the rubber segments H are attached by their eyes *e* to the hooked ends of springs S, which are coiled around the bar G'. The lower ends of the rubber segments are free to articulate at their hooked joints, and their upper portions are allowed free elastic movement by reason of their attachment to the springs S. As the segments H are made of springy metal, they can be quickly adjusted to the arms of the rubber or detached therefrom.

Having described our invention, we claim—
1. A rubber composed of flexible segments H, flattened and shouldered, as described, in combination with the slats or rubbing-bars having kerfs which receive the flattened portions of the segments, substantially as specified.

2. The combination of the segments H, the bars applied thereto, as described, the hook-and-eye fastenings, and the springs S, substantially as described.

In testimony that we claim the foregoing as our own we affix our signatures in presence of two witnesses.

GEORGE M. STRAIN.
ALEXANDER STRAIN.

Witnesses:

JAMES M. CULLEY,
LOGAN ANDERSON.