J. ROSKAM & R. OOMS.

WASHING MACHINE.

APPLICATION FILED MAY 12, 1915.

1,177,965.

Patented Apr. 4, 1916.

2 SHEETS—SHEET 1.

Fig. 1.

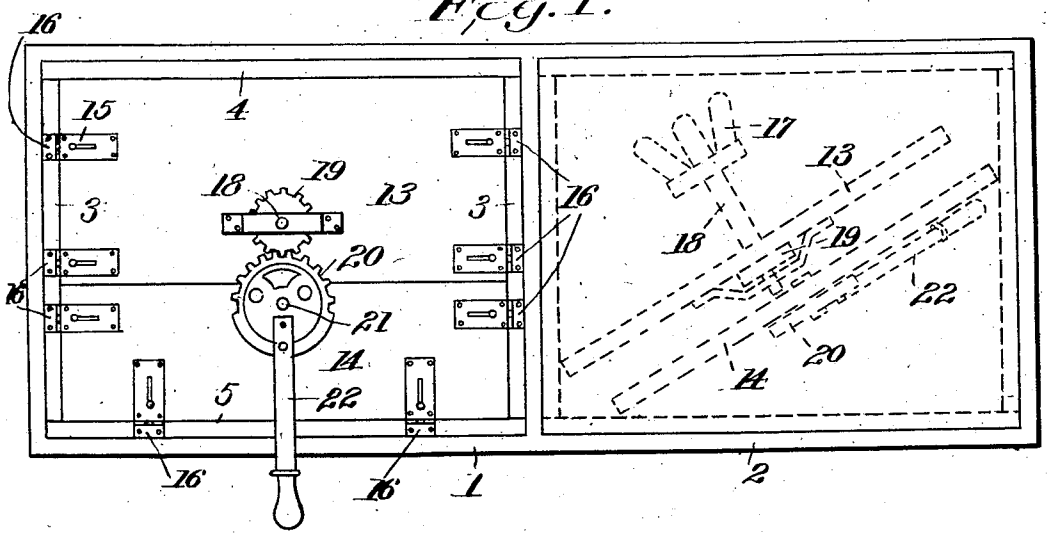


Fig. 2.

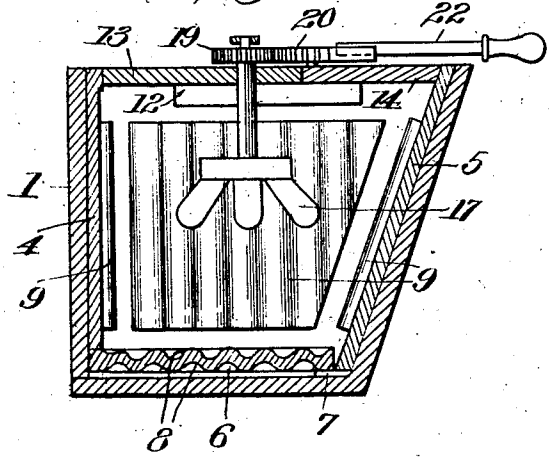
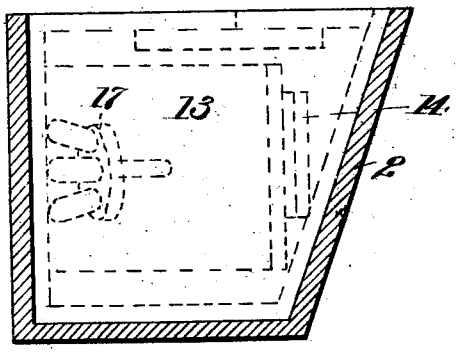


Fig. 3.



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2 SHEETS—SHEET 2.

Fig. 4.

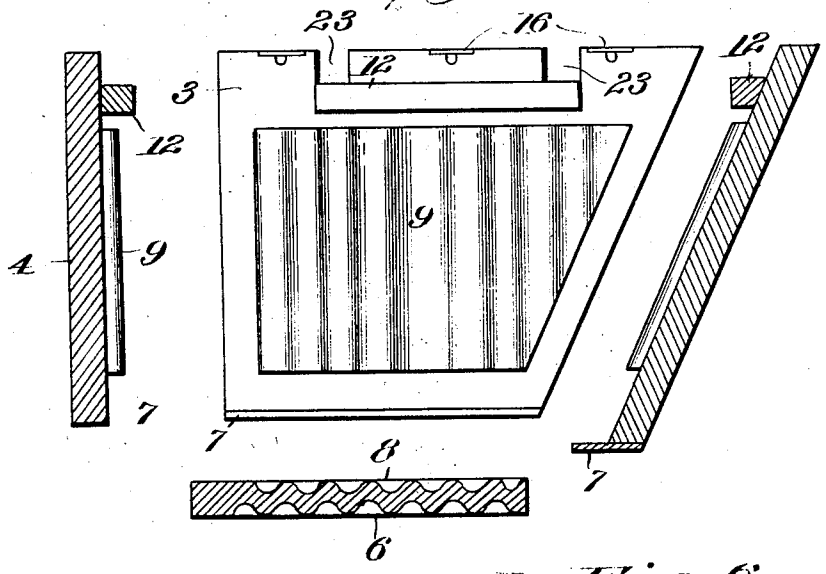


Fig. 6.

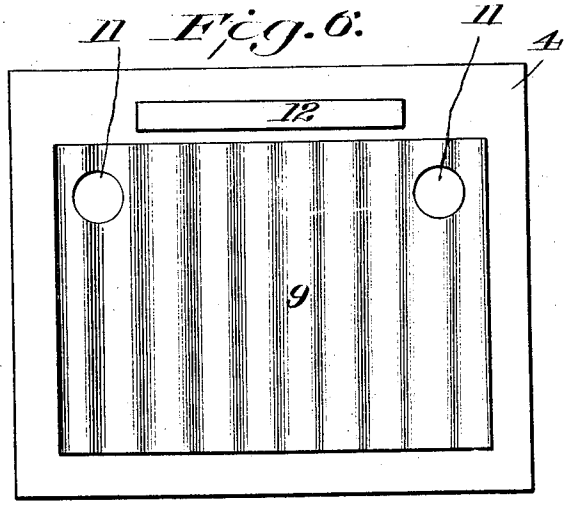


Fig. 5.

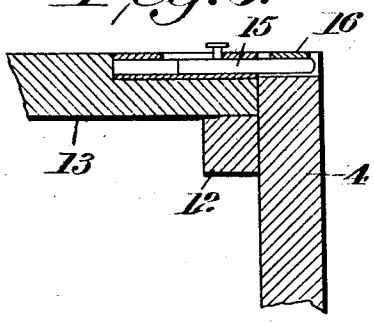
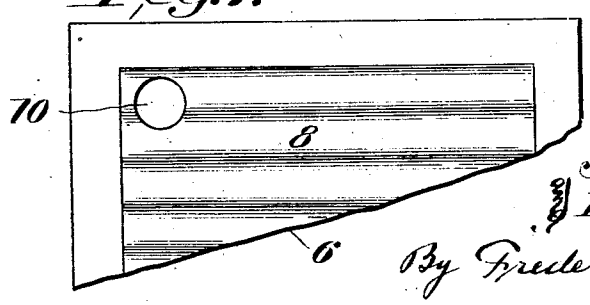


Fig. 7.



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UNITED STATES PATENT OFFICE.

JACOB ROSKAM AND RICHARD OOMS, OF BROOKLYN, NEW YORK.

WASHING-MACHINE.

1,177,965. Specification of Letters Patent. Patented Apr. 4, 1916.

Application filed May 12, 1915. Serial No. 27,636.

To all whom it may concern:

Be it known that we, JACOB ROSKAM and RICHARD OOMS, subjects of the Queen of the Netherlands, and residents of Brooklyn, in the county of Kings and State of New York, have invented a new and useful Improvement in Washing-Machines, of which the following is a full, clear, and exact specification.

This invention relates to clothes washing machines, and has for its object to provide apparatus of this kind which may be used in an ordinary stationary wash tub such as are now usually found in dwelling houses, apartments and flats.

A special object is to provide such apparatus as can be completely stored in the wash tub when not in use, thus saving storage space which is a very important item particularly in modern flats and apartments.

A further object is to simplify the construction of the lining for the tub, whereby it may be readily and securely adjusted in place.

Another object is to provide improved means for detachably fastening the cover of the machine to the lining sections.

Other objects will appear as the description proceeds.

The invention will be first hereinafter described in connection with the accompanying drawings, which constitute a part of this specification, and then more specifically defined in the claims at the end of the description.

In the accompanying drawings, wherein similar reference characters are used to designate corresponding parts throughout the several views:—Figure 1 is a plan view of a pair of stationary wash tubs such as are now generally in use, the left hand tub having our improved washing machine operatively attached thereto, and the manner of housing the cover with the lining, when the machine is not in use, within the tub being illustrated in the right hand tub. Fig. 2 is a central vertical section taken from front to back of the left hand tub. Fig. 3 is a similar section of the right hand tub. Fig. 4 is a diagrammatic view of one end section, the back and front sections and the bottom section of the lining for the tub, showing more clearly how said sections are assembled. Fig. 5 is a detailed section through one of the bolts for detachably connecting the cover or top section to the side and end sections. Fig. 6 is an elevation of the back lining section, showing the openings for the faucets, and Fig. 7 is a partial plan view of the bottom lining section showing the drain opening.

Referring to Figs. 1, 2 and 3, the left and right hand tubs are designated 1 and 2, respectively. The lining comprises end sections 3, a back section 4, a front section 5 and a bottom section 6. The end and front sections are placed in the tub first. These sections are provided with inwardly extending strips or flanges 7 on their lower edges upon which the bottom section rests for retaining said end and front sections in place. The bottom section fits between the lower edges of the end sections and extends from the lower edge portion of the front section to the back of the tub. The end sections fit between the lateral edge portions of the front and back sections, the latter extending the full length of the tub. The back section is put in place last and rests upon the rear edge portion of the bottom section, thus serving to hold the latter in position and preventing it from floating. The faucets extending through openings in said back section, as presently described, hold the back section down, that is, prevents it from floating up under the action of the water. All the sections are preferably made of wood except the strips 7 which are of galvanized metal.

The upper surface of the bottom section is corrugated, as at 8, and the other sections have corrugated inner surfaces 9. The back, front and end sections of the lining are further provided with cleats or flanges 12 arranged horizontally near their upper edges to form a seat for the cover which is made in two parts 13 and 14 and which fits down within the upper edge portions of said back, front and end sections. The two parts of the cover are detachably secured in place by sliding bolts 15 carried by the cover sections and adapted to engage keepers 16 on the upper edges of the front and end sections, Figs. 1, 4 and 5. The bolts may be easily withdrawn from the keepers for releasing the cover when the machine is not in use.

The cover is made in sections so as to permit it to be stored in the tub, when the machine is not in use, as indicated in dotted lines in right hand tub in Fig. 1 and in Fig. 3. As illustrated, the rear part 13 of

the cover is made wider than the front section 14 so that it may carry the agitator or dolly 17 which must be disposed centrally of the tub. Said agitator or dolly is carried by a vertical shaft 18 journaled in the cover section 13 and having a gear 19 on its upper surface. The front section 14 of the cover carries a segmental gear 20 pivoted at 21 and having an operating lever 22. When the two parts of the cover are in operative position, as shown in Figs. 1 and 2, the segmental gear 20 meshes with the gear 19 so that oscillation of the lever 22 will cause the gear 19 and agitator or dolly 17 to be rotated alternately in opposite directions for coöperating with the corrugated inner surfaces of the lining sections to wash the clothes in the tub. When the cover is removed and the sections thereof placed inside the tub, the lever 22 may be turned into line with the longitudinal axis of the section 14 so that said lever may also be completely housed in the tub.

The bottom section of the lining is provided with a drain opening designed to register with the drain opening of the tub (not shown). The back section 9 has openings 11 through which the faucets (not shown) may extend when the lining is in place. All of the lining sections may be made with the corrugations 9 on both sides so that they can be reversed. The bottom section especially should be corrugated on both sides, as at 8 in Figs. 2 and 4, so that it can be reversed when it is desired to use it in the right hand tub, it being well known that the drain pipes or openings in such tubs are arranged at either side of and near the central partition. The end section 3 may have notches 23 in its upper edge to permit a wringer to be secured to the edge of the tub.

Having thus described our invention, what we claim as new and desire to secure by Letters Patent of the United States is:—

1. A lining for wash tubs comprising back, front and end sections having inwardly extending flanges, and a bottom section to fit within the lower edge portions of said sections and upon said flanges for the purpose specified.

2. A sectional lining for wash tubs comprising a bottom section, a back section, a front section, and end sections, the end and front sections having inwardly extending flanges, the bottom section resting upon said flanges, the back section resting upon the rear edge portion of the bottom section.

3. The combination with a wash tub, of a sectional lining therefor comprising wall sections having horizontal cleats on their inner faces near their upper edges, and a cover to fit within the upper edges of said wall sections and seat upon said cleats.

In testimony whereof we have signed our names to this specification.

JACOB ROSKAM.
RICHARD OOMS.