

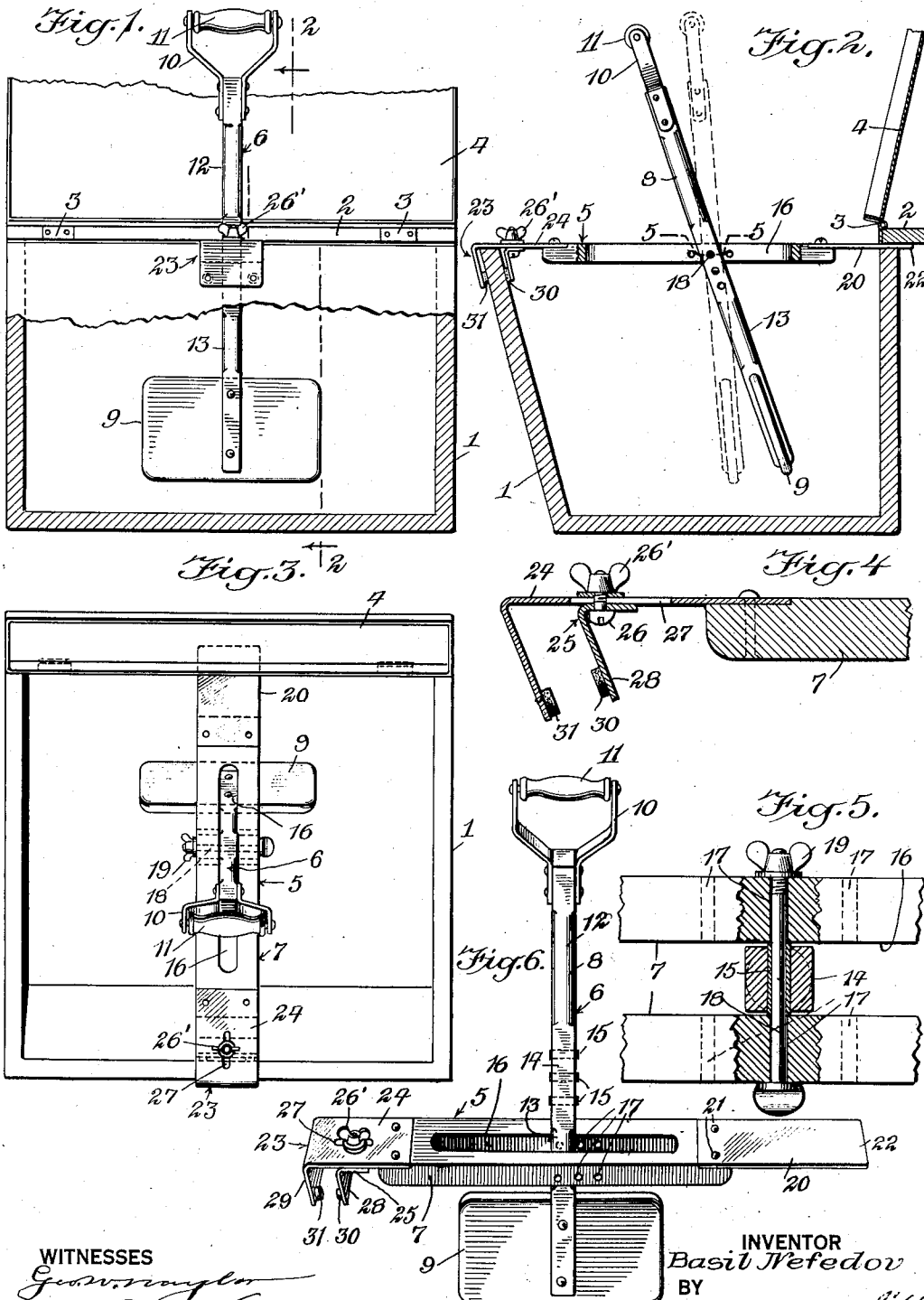
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CLOTHES WASHING MACHINE

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WITNESSES

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CLOTHES WASHING MACHINE

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2 Claims. (Cl. 259—101)

This invention relates to clothes washing machines and has for an object to provide an improved construction wherein the actual washing members may be connected to various forms of washtubs and disconnected at will.

Another object of the present invention is to provide a washing machine for clothes which is adapted particularly to be removably connected to a conventional washtub, the structure being such that when properly mounted on a washtub the washing or beating member may be readily actuated.

An additional object, more specifically, is to provide in a washing machine a supporting structure with a slot and a beating structure having a bar extending through the slot and pivotally mounted at a point adjacent the slot, so that one end of the beating structure will be within the tub and the other end extending beyond the tub so as to be grasped and readily actuated manually.

In the accompanying drawing—

Figure 1 is a front view of a clothes washing machine disclosing an embodiment of the invention, the same including a tub and washing mechanism, certain parts being broken away;

Figure 2 is a sectional view through Figure 1 approximately on the line 2—2;

Figure 3 is a top plan view of the structure shown in Figure 2;

Figure 4 is an enlarged sectional view through a clamp and associated parts shown in Figure 2;

Figure 5 is a fragmentary sectional view through Figure 2 approximately on the line 5—5;

Figure 6 is a detailed perspective view of the washing structure shown in Figure 2.

Referring to the accompanying drawing by numerals, 1 indicates a tub of any desired kind as, for instance, the usual tub now in common use made of slate, stone, porcelain or other material, and usually placed either in the cellar or kitchen of a home. A tub of this kind is usually mounted on suitable supports preferably a short distance from the wall with a rather narrow plate 2 mounted at the rear upper edge of the tub and extending to a point in contact with the wall. One or more hinges 3 are connected to the plate 2 and to these hinges is connected a metal top 4 which is adapted to cover the tub 1.

The structure just described is old and well known and forms no part of the present invention except in combination. Coacting with the tub 1 is a washing structure 5 which is shown

separately and in perspective view in Fig. 6 with certain parts turned from the position shown in Fig. 2 through an arc of about 90 degrees. It will be observed that, generally speaking, the washing structure 5 consists of a swinging member 6 and a stationary member 7. The swinging member 6 is provided with a bar or stem 8 which is secured by rivets or other means to a beater or stirrer 9, and is also secured to a handle structure 10 by suitable rivets. The handle structure is preferably provided with a grip 11 whereby an operator may readily grip the handle 11 and swing the parts back and forth as indicated by the dotted lines in Fig. 2. The bar or shank 8 is provided with rounded portions 12 and 13 and with a squared portion 14. The portion 14 is provided with a number of apertures in which metal sleeves 15 are mounted.

When it is desired to assemble the parts, the beater 9 is turned to the position shown in Fig. 20 6 and may be readily passed through the slot 16 in the stationary member 7 and then turned when either the rounded part 12 or 13 is in the slot so that the squared portion 14 may readily slide into the slot. The squared portion is of a size to readily slide back and forth in the slot but cannot rotate therein. The stationary member 7 may be formed of any material as, for instance, wood, and is not only provided with the slot 16 but with a plurality of pairs of apertures 17 through which the bolt 18 is adapted to extend. The bolt 18 also extends through one of the metal sleeves 15, as illustrated in Fig. 1, which extends through the highest sleeve so that the beater 9 is at its lowest point in the tub 1. The metal sleeves act as a bearing so that as the beating structure is swung back and forth the wear will be unappreciable. A wing nut 19 holds the bolt 18 in place but may be readily removed at any time so that the bolt may also be removed. When this is done the parts may be drawn up to the position shown in Fig. 6 and then turned until the beater 9 readily slides through the slot 16. The swinging member may then be laid down on the stationary member 7 and this member removed from the tub, whereby the parts may be tied together and stored away in minimum space.

In order to hold the stationary member 7 in place a comparatively thin plate of metal 20 is secured by rivets, screws or the like 21 to the end of the stationary member 4. The parts are so proportioned that the outer end 22 of plate 20 may be inserted between the tub 1 and the plate 2 as shown in Fig. 2. The opposite end of the stationary member 7 to the plate 20 is provided with

a clamping structure 23 which is formed with an L-shaped plate 24 coacting with an L-shaped plate 25 and with a clamping bolt 26. A slot 27 is formed in the L-shaped structure 24 and the bolt 26 extends therethrough, whereby the laterally extending leg 28 of structure 25 may act as a clamping flange in respect to one of the walls of the tub 1. The downwardly extending leg 29 coacts with the leg 28 for clamping the tub 1. Rubber or other cushion members 30 and 31 are used, as shown particularly in Figs. 2 and 4 whereby a good gripping action is secured without injuring the tub.

When the device is first applied the end of plate 20 is thrust beneath plate 2 and then the angle plate 24 is caused to rest on top of the front wall of the tub. The angle plate and associated parts are then pressed inwardly into the cushion member 31, pressed tightly against the outer surfaces of the tub, and the depending part 28 is pulled over until the cushion 31 carried thereby is pressing tightly against the inner surface of the front wall of the tub. After this has been done the wing nut 26' is rotated until the nut 26 has clamped the parts rigidly together, whereupon the washing structure is firmly secured to the tub and with the tub forms a complete washing machine.

When it is desired to remove the parts, the wing nut 26' is loosened and the device is swung upwardly slightly until members 25 and 29 are free from the tub. After this has been done the stationary structure 7 is given a pull until the plate 20 is moved from beneath plate 2. It will be readily seen that the device may be quickly applied to a tub and also quickly removed there-

from without injuring the tub or the device. Also the agitating device or beater 9 may be raised or lowered according to the depth of the tub or the height of the clothes to be washed.

I claim:

1. A washing machine including a tub and a removable washing structure associated therewith, said washing structure comprising a swinging part and a stationary part, said stationary part having a slot extending an appreciable part of its length through which the swinging part extends, means for pivotally connecting the swinging part to the stationary part, said means for pivotally connecting said swinging part being adjustable along said slot, said swinging part having a hand grip at one end and a beater at the other end, while the stationary part has a supporting plate at one end and a tub gripping member at the opposite end.

2. A washing machine including a stationary bar having a longitudinally positioned slot and a plurality of transversely extending aligned apertures, means for holding said stationary bar in operative position, a beating paddle, a rod connected to said paddle and extending through said slot, said rod having a plurality of apertures, a grip connected to said rod at the end opposite said beating paddle, and means adapted to be positioned in any pair of said apertures in said stationary bar and also in any pair of apertures in said rod for pivotally supporting said rod on said stationary bar, said last-mentioned means permitting adjustment of said paddle longitudinally of said stationary bar and transversely thereof in the plane of said slot.

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