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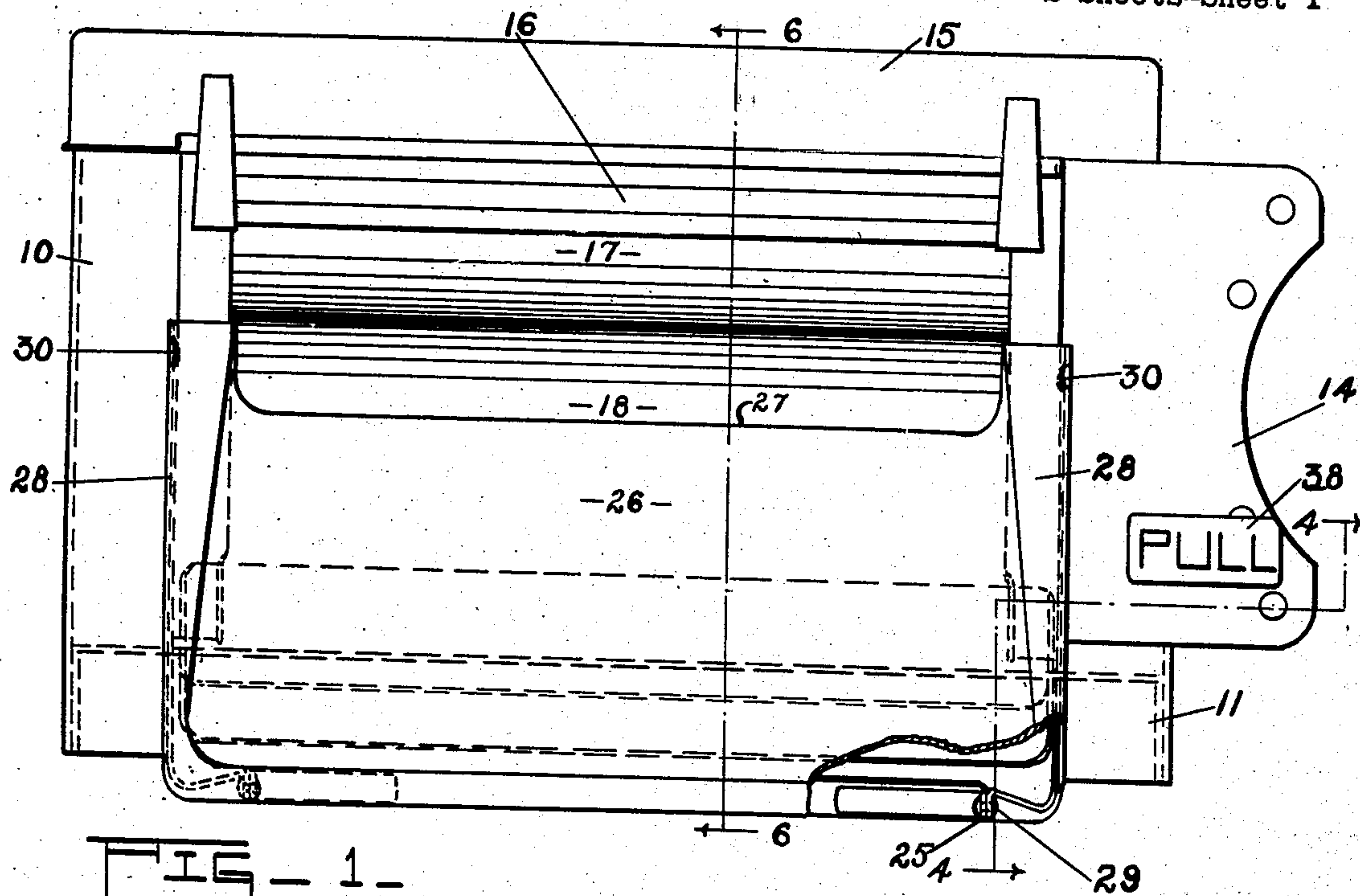
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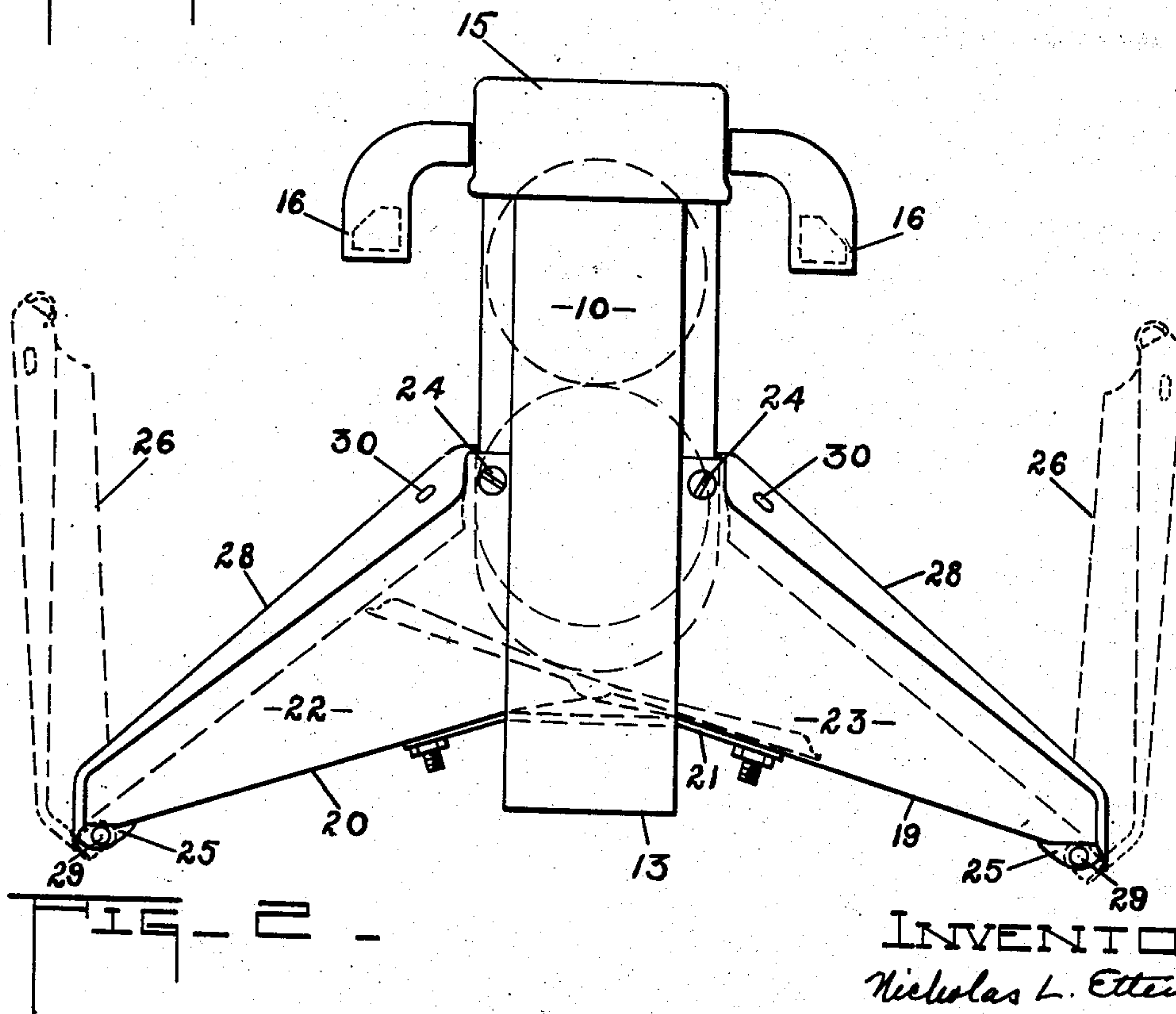
WRINGER DRAIN BOARD MECHANISM

Filed June 5, 1935

2 Sheets--Sheet 1



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Left & Left
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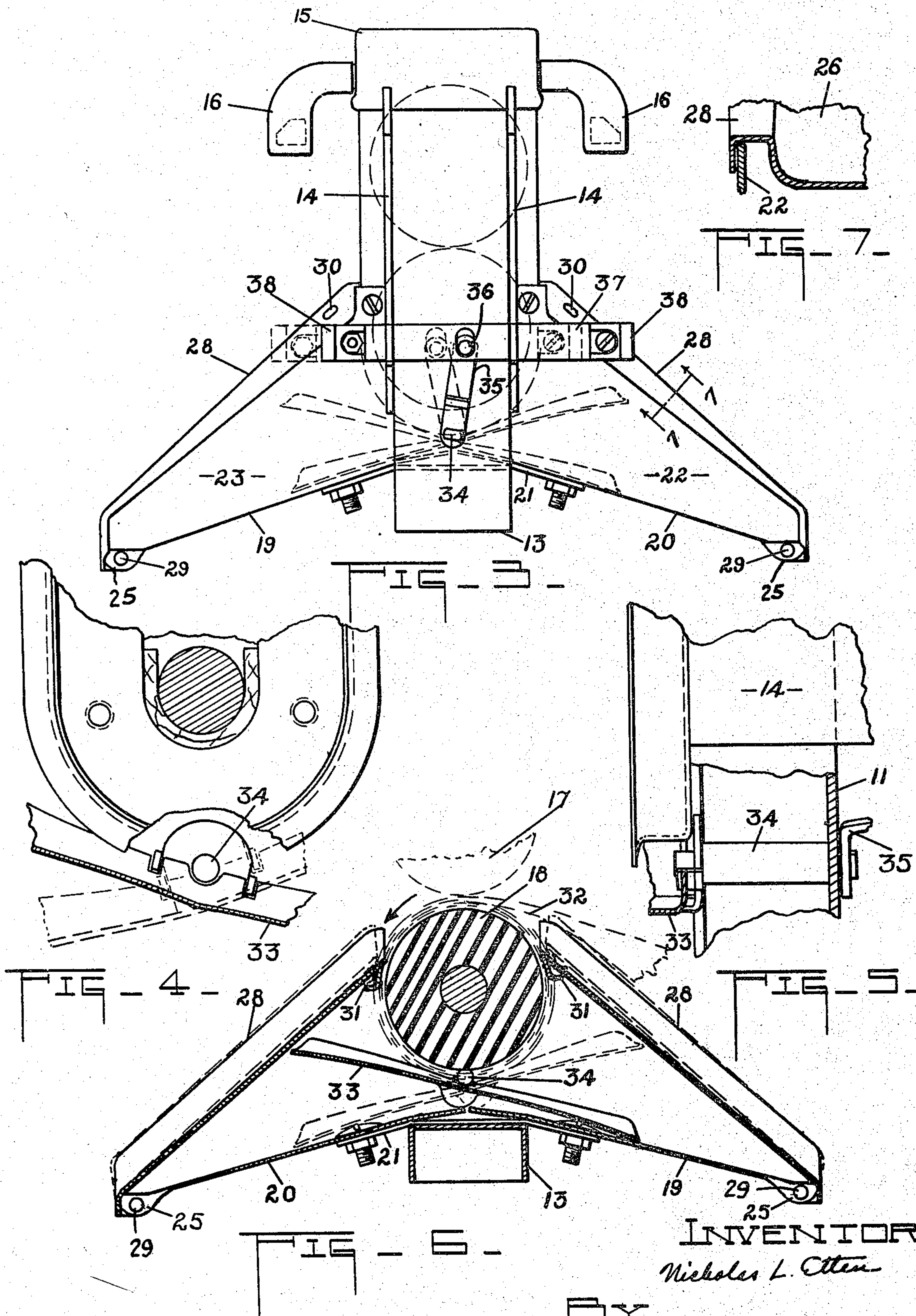
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WRINGER DRAIN BOARD MECHANISM

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2 Sheets-Sheet 2



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WRINGER DRAIN BOARD MECHANISM

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Application June 5, 1935, Serial No. 25,035

5 Claims. (Cl. 68—271)

This invention is directed to drain board mechanisms for roll wringers and has for its principal object the provision of a drain board mechanism in which the upper portion, or drain board proper, is made movable with respect to the associated wringer rolls whereby garments adhering to the lower rolls and winding thereabout are not damaged by destructive rubbing action against the drain board.

Another object is to provide a drain board mechanism wherein portions thereof are made movable whereby the lower, inner portions of the structure are made accessible for the purpose of cleaning, recovering lost articles or the like.

Other objects will appear in the following description and accompanying drawings in which:

Fig. 1 is a side elevational view showing a wringer in which my invention is embodied;

Fig. 2 is an end elevational view of the same wherein operative movement of the drain board is indicated in dotted lines;

Fig. 3 is an elevational view showing the end opposite that shown in Fig. 2;

Fig. 4 is an enlarged fractional end elevational view showing details of mechanism to be described, the same being taken on line 4—4 in Fig. 1;

Fig. 5 is a fractional sectional side elevational view showing details of structure to be described;

Fig. 6 is a sectional end elevational view showing details of structure to be referred to; and

Fig. 7 is a fragmentary detail view taken on line 7—7 in Fig. 3.

For the purpose of illustration I show my invention as embodied in a wringer mechanism, the structural details of which are not a part of this invention and are thought sufficiently well known to obviate description further than to say that it comprises end frame members 10 and 11 joined at the bottom by a transverse frame member 13.

The end frame member 11 carries extension pieces 14 by means of which the wringer structure is attached to a support not shown.

The wringer frame is surmounted with a transverse top frame member 15 and this may carry suitable tensioning and release mechanism, the latter of which is to be operated by means of manipulation of hand bars 16 conveniently disposed on the top frame as shown.

The mechanism also includes upper and lower rolls 17 and 18.

In carrying out my invention I provide a lower structure comprising plates 19 and 20 which are positioned to extend a substantial distance out-

wardly from frame member 13 and are supported thereon by means of a sub-plate 21 attached to plates 19 and 20 and to the member 13 as shown.

Plates 19 and 20 are provided with upstanding end portions 22 and 23 and the upper, inward portions of these are secured to the wringer frame structure as by screws 24 whereby the plates are firmly held in position.

26 designates separate plate members which are so proportioned as to extend across the wringer structure as shown best in Fig. 1.

Plates 26 are fashioned to have depressed portions 27, the edges of which normally lie closely adjacent to the lower wringer roll, Fig. 6, and upstanding end portions 28 which have reversely directed edges adapted to fit over the upper edges of plate portions 22 and 23 as illustrated in Fig. 7. The construction described obviously provides drain boards or aprons extending downwardly and outwardly from points adjacent to the lower roll to points somewhat beyond the outer lower edges of plates 19 and 20.

At the latter point the apron members are bent down so as to provide means for a pivotal connection with plates 19 and 20, the latter having ear portions 25 as shown. The connection is accomplished by means of rivets or pins 29.

The lower edges of aprons 26 are so disposed relative to the edges of plates 19 and 20 as to leave a space between them to permit drainage of water from the interior part of the structure.

Adjacent to the upper ends of edges 28, small lugs 30 are formed, and end portions 22 and 23 are provided with indentures positioned to receive the lugs and thereby lightly hold the plates 26 in lowered position.

At the point where aprons 26 lie adjacent to the lower wringer roll the edges of the aprons are bent down as best shown at 31 in Fig. 6.

Dotted outlines in Fig. 2 indicate that the apron members 26 may be rocked upon pivots 29 to an open position to expose the interior of the structure. In practical use it often occurs that small articles, such as handkerchiefs, buttons or the like become lost in the space below the apron portion of a drain board. In the usual form of drain board it is quite difficult to recover such articles, but with the arrangement herein described the aprons may be quickly opened to make the interior space accessible.

Since in normal use there is a tendency for lint, soap and the like to accumulate in the lower parts of the structure the movable apron also forms a means for easy cleaning.

It is not unusual, when garments are being

wrung, for an article to wind upon one of the rolls, and when this occurs on the lower roll, unless there be a large clearance between the apron portion and the roll, the garments are likely to become tightly wedged between the roll and apron whereby the garments may be badly damaged.

My apron arrangement provides against such damage by reason of the pivotal movement described.

In Fig. 6 I show the movement resulting from piling up of garments on the roll. With the roll rotating in the direction of the arrow, a garment 32 passing between the roll and apron at the left, which is only lightly held in position, forces the apron to rock upon pivot 29 to permit the garment to pass through without injury. The same action takes place with the apron on the right. It will be apparent that the garments may pile up on the roll to any extent without damage thereto. When the situation is discovered by the operator of the wringer, she will usually reverse rotation of the rolls to unwind the garment and this may be done with the same absence of damage.

With the arrangement described the edges of the aprons may obviously be normally disposed quite close to the surface of the lower roll, which is desirable in practice, while at the same time the danger of injury to garments is obviated.

Drain board mechanisms of the class herein considered usually include a diversion member or flipper board mechanism disposed below the lower roll and adapted to divert water falling from the roll toward the side under which the washing tub is disposed.

For the above purpose I provide a plate member 33 which is pivotally supported at 34 upon the associated structure so as to be rocked as shown in solid and dotted lines in Fig. 6.

At one end, as in Figs. 3 and 5, the pivot support includes a shaft 34 which extends through the upright structure 11 and has an arm 35 secured to its outer end. The free end of the arm is pivotally attached at 36 to a transversely disposed bar 37 which is slidably supported in the frame structure.

The bar extends upon both sides of the frame structure and each end thereof carries a knob 38.

By means of the knobs, the bar 37 may be manipulated in the manner shown in solid and dotted lines in Fig. 3 to rock the plate 33 as above described.

The foregoing has described a preferred embodiment of my invention. Modifications of structure are obviously possible without alteration of the principle involved. I do not wish to be limited in structure or function except within the scope of the appended claims.

What I claim is:

1. In a clothes wringer, a wringer frame, co-operating rolls, a drain board having downwardly tapered vertical side walls fixedly attached to the frame, a flipper board pivotally mounted under the rolls to divert drain water to either side of the drain board, cloth boards hinged to the lower corners of the drain board and extending across the vertical side walls of the drain board, releasable snap fasteners fashioned between the upper corners of said drain and cloth boards to hold them together, and wiper lips formed on the upper edge of the cloth board whereby clothes are restricted from wrapping around the lower roll or permitted to lift the cloth boards without damage to the clothes.

2. In a clothes wringer, a frame, rolls therein, a pair of oppositely inclined cloth boards disposed upon opposite sides of the lower roll and pivotally secured at their lower outer end portions to a rigid part of the wringer frame, cooperating means at the upper ends of said cloth boards and a rigid part of the wringer frame for permitting yielding pivotal movement of the upper ends of said cloth board relatively to said roll, and downwardly and outwardly extending lip formations at the upper edges of said cloth boards opposed to and closely spaced from the said roll for co-operation with garments that may wrap themselves about said roll to effect said pivotal movement of said cloth boards responsively to the wedging of garments between the roll and said lip formations.

3. In a clothes wringer, a frame, rolls therein, the combination with the lower roll of a cloth board disposed at an incline to said roll and pivoted at its outer lower end to a rigid part of the wringer frame, formations along the upper edge of said cloth board opposed to and closely spaced from the roll and therewith defining a passage for clothes that may wrap themselves about said roll and yieldingly releasable latch means on said cloth board and the wringer frame permitting pivotal movement of the cloth board to further space its upper end from the wringer roll responsively to passage of garments through the aforesaid passage, the said formation of said cloth board effecting a cam action under the influence of pressure against the same whereby to automatically release said latch means.

4. In a clothes wringer, a wringer frame, co-operative rolls carried by said frame, a drain board secured to said frame and having a drain surface extending outwardly and downwardly for a substantial distance from a place beneath said rolls, said drain board having upwardly directed side edge portions extending in increasing height from adjacent to the outer edge of the drain surface to a place adjacent to one of the rolls, and a cloth board extending over and across said drain board from the outer edge of the drain surface to a place adjacent to one of the rolls and to said upwardly directed side edge portions, said cloth board being pivotally secured to said drain board adjacent to the outer edge of each board, said cloth board being adapted to be supported at its side edges by said upwardly directed side edge portions of said drain board.

5. In a clothes wringer, a wringer frame, co-operative rolls carried by said frame, a drain board secured to said frame and having a drain surface extending outwardly and downwardly for a substantial distance from a place beneath said rolls, said drain board having upwardly directed side edge portions extending in increasing height from adjacent to the outer edge of the drain surface to a place adjacent to one of the rolls, a cloth board extending over and across said drain board from the outer edge of the drain surface to a place adjacent to one of the rolls and to said upwardly directed side edge portions, said cloth board being pivotally secured to said drain board adjacent to the outer edge of each board, said cloth board being adapted to be supported at its side edges by said upwardly directed side edge portions of said drain board and means for releasably securing the cloth board in a position with its side edges against said upwardly directed side edge portions of said drain board.