

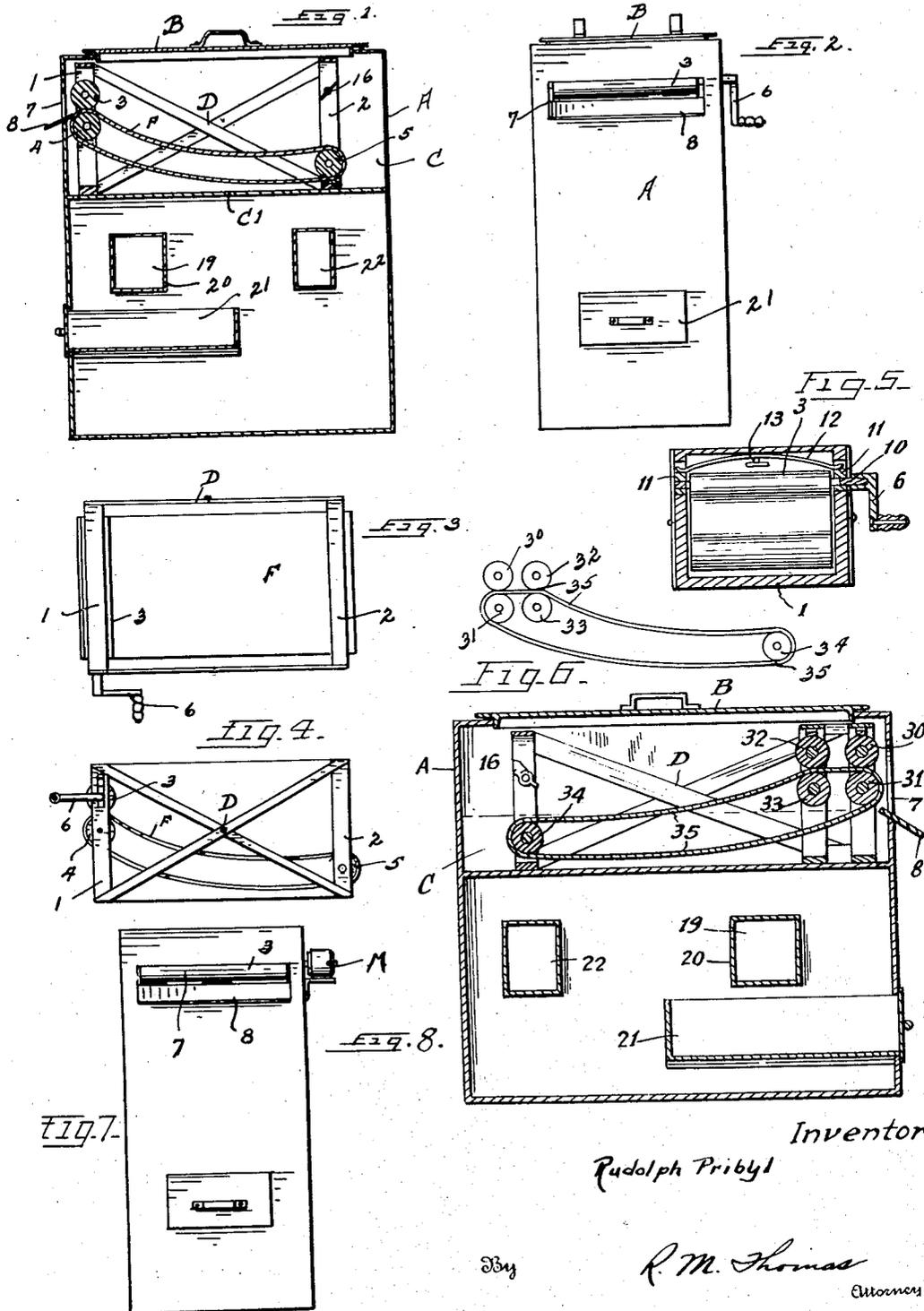
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RINSING AND WRINGING MACHINE

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RINSING AND WRINGING MACHINE

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1 Claim. (Cl. 15—262)

My invention relates to service station equipment and has for its object to provide a new and efficient device for storing and drying sponges and chamois used to clean and rub off the windows of the cars which have stopped for service at the station.

A further object is to provide a device for drying fabrics, chamois, or sponges, before they are ready for use, which consists of a tank carrying an endless belt with spring held rollers at the outer end of the tank to squeeze any water out of the article being passed therethrough.

A still further object is to provide an inexpensive device for storing fabrics, chamois, or sponges, or like articles in a liquid and then by means of endless belt and coating turning and pressing rollers carrying the article from the device in a semi-dry state such as will be obtained by passing it through wringer rollers.

A still further object is to provide a service station equipment which will have a water compartment in the top carrying an endless belt and wringer rollers to carry articles from the water through the rollers and out the discharge end thereof and which has a compartment thereunder in which suitable fabrics may be placed and taken out one at a time the fabrics to be used to wipe the hands or clean the oil level gauge rods and with another compartment and an opening thereinto in which the dirty fabrics may be placed after use and before final disposal, to put them away out of sight until such time as a suitable quantity has been accumulated as to fill the compartment drawer, at which time the drawer will be removed and the entire accumulation disposed of in any suitable manner.

In the drawing in which I have shown the best and most preferred manner of building my invention Figure 1 is a vertical section through the device.

Figure 2 is an end view of the device.

Figure 3 is a plan view of the removable rolls and endless belt assembly.

Figure 4 is a side elevation of the device shown in Figure 3.

Figure 5 is a section through the front frame and hand crank for the device with neither of the rolls shown sectioned.

Figure 6 is a diagrammatic view of a modified form of the device in which double sets of rolls are used to insure complete drying of the articles being passed therethrough.

Figure 7 is a front elevation of the device shown in Figure 2 with a motor used to drive the rolls instead of the hand crank. As may be desired

this motor will be shielded or set into the inside of the casing.

Figure 8 is a vertical section through the form of the device shown in Figure 6.

In the drawing I have shown the device as made with a rectangular casing A for which a lid B is provided, the lid having handles on each side thereof by which it may be raised from either side of the casing to deposit sponges or chamois therein. The casing A has a water compartment C formed in the upper portion thereof, with the closed bottom C' acting as the partition to hold the water in the compartment C.

The lid B has a flange on the inside bottom face thereof to fit down into the opening in the top of the casing to keep the lid from sliding off from the other side of the casing when said lid has been raised from one side to deposit an article therein.

The device used for drying out the sponges and chamois or other fabrics is made as a removable framework D having vertical frames 1 and 2 at the ends thereof with suitable cross braces to hold it together in fixed relation. The wringer rolls are shown as 3 and 4 set in the frame 1 with the roll 3 set in juxtaposition to the roll 4 and the rolls to carry an endless belt F therebetween with the rear end of the endless belt F carried over a roller 5 which roller is set in the frame 2, with the roll 5 set below the lowest level of the roll 4 and with the endless belt F encircling the roll 4 and the roll 5 and passing between the rolls 3 and 4 with the pressure of the roll 3 applied thereto by suitable means which will be described later in this specification. The shaft of the roll 3 is extended at one end and a motor M, such as shown in Figure 7 of the drawing, may be attached thereto or, a crank 6 as shown in the other views of the drawing may be used to operate the device. The end of the casing A at which rolls 3 and 4 and the frame 1 is placed is provided with a cross opening 7 through which the dried or semi-dried articles are passed and a pick up plate 8 is set in the bottom of the opening 7 in close proximity to the belt F where it encircles the roll 4 with the top edge of the plate 8 near the diverging point of the two rolls 3 and 4 so that any article being passed from the rolls 3 and 4 will be caught by the plate 8 and carried out of the casing through the opening 7.

The pressure for the rolls is applied by setting the shaft 10 of the roll 3 in suitable bearing blocks 11 and the blocks are then carried in vertical openings in each side of the frame 1 to allow the roll and its shaft to move up and down, and a

pressure spring 12 is held by an adjustable screw 13 over the roll 3 with the ends of the spring pressing down onto the top side of the blocks 11.

In the lower part of the casing A there is a pivoted plate 19 leading into an opening 20 to dispose of dirty articles or used oily clothes into a tray drawer 21 which drawer is passed through the end of the casing into the interior thereof directly under the openings 20. A receptacle 22 is provided in the bottom of the casing A to hold folded fabrics such as wiping cloths, tissue paper, or like materials on which the mechanics or service station attendants may wipe the oil level rods or their hands and the then dirty fabrics are placed in the drawer 21 through the opening 20 by pressing the pivoted plate 19 inwardly.

As a modified form of the device the wringer roll may be made in two sets as shown in Figure 6 with the rolls 30 and 31 at the front and the rolls 32 and 33 set directly therebehind with the belt 35 passing through between the rolls 32 and 33 and then between the rolls 30 and 31 and then back around the roll 34 at the rear of the device and back to rolls 32 and 33. Thus, the stretch of belt between the two sets of rolls will be level and there will be two pressures applied to the articles passing therethrough.

The belts D are so long that they preferably hang down into the water or other liquids in the casing A and any loose articles in the compartment C will be elevated to the rolls and pressed thereby.

Having thus described my invention I desire to secure by Letters Patent and claim:

In a device of the class described the combination of a casing; fluid carried in said casing to a predetermined level; a framework mounted in said casing to be removed when desired, for cleaning the casing; two sets of rollers mounted in pairs at one end of said framework adjacent an opening in said casing with one of each pair in vertical juxtaposition to the other and with spring pressure to hold the respective top rollers into frictional contact with the respective lower rollers; another roller mounted at the rear of said casing in the other end of said framework; an endless belt mounted on said last roller and carried forward up around the front of the forward set of rollers and between both sets of rollers and back to the first roller with sufficient slack in said belt to allow it to droop mostly into the fluid in said casing; and means to rotate the front set of rollers.

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