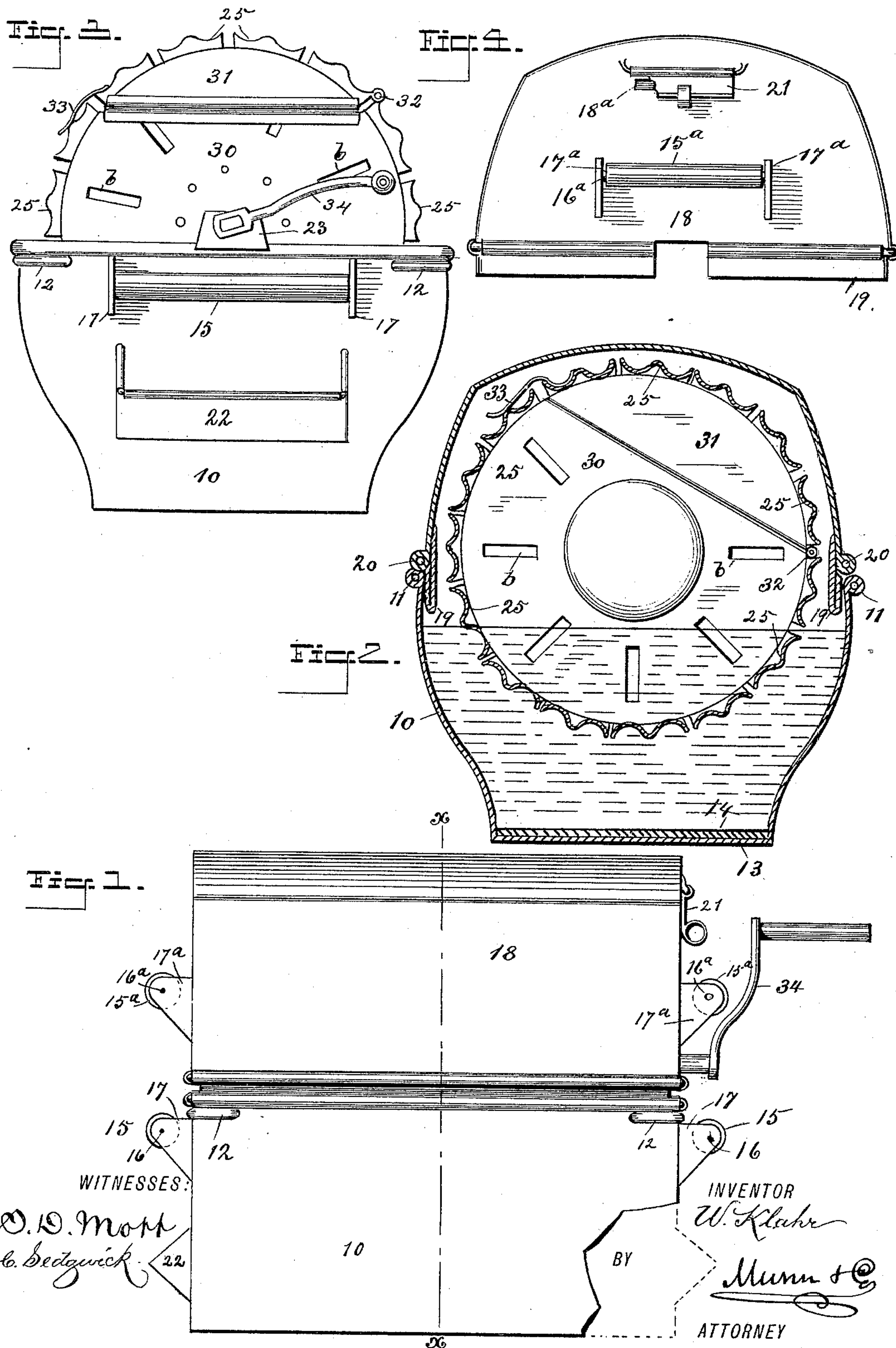


(No Model.)

W. KLAHR.
STEAM WASHER.

No. 411,224.

Patented Sept. 17, 1889.



UNITED STATES PATENT OFFICE.

WILLIAM KLAHR, OF MYERSTOWN, PENNSYLVANIA.

STEAM-WASHER.

SPECIFICATION forming part of Letters Patent No. 411,224, dated September 17, 1889.

Application filed February 28, 1889. Serial No. 301,539. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM KLAHR, of Myerstown, in the county of Lebanon and State of Pennsylvania, have invented a new and Improved Steam-Washer, of which the following is a full, clear, and exact description.

The object of this invention is to provide a steam-washer for clothes, wherein the parts shall be so constructed and arranged that the desired cleansing of the clothes may be brought about with a minimum amount of labor, and wherein the washer shall be so constructed that it will withstand all ordinary wear and tear.

To the ends named the invention consists of the novel constructions, arrangements, and combinations of elements to be hereinafter fully described, and specifically pointed out in the claim.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar figures and letters of reference indicate corresponding parts in all the views.

Figure 1 is a side view of my improved steam-washer. Fig. 2 is a cross-sectional view taken on line $x x$ of Fig. 1. Fig. 3 is an end view with the cover removed, and Fig. 4 is an end view of the cover.

In the drawings, 10 represents the washer-body, which is made of heavy sheet metal and strengthened about the top by a wire 11, the corners being braced and supported by brackets 12, that are riveted to the body. To the bottom of the washer-body I solder or otherwise connect a plate 13, which rests closely against the inner bottom 14 and prevents all wear of said main bottom incident to abrasion due to the moving of the washer-body upon any supporting-surface.

To each end of the body 10, I secure a handle 15, said handles consisting of wooden rollers that are centrally apertured to receive a supporting pin or rod 16, which pin or rod is supported at each end by brackets 17.

The cover 18 of the washer-body is formed with a downwardly-extending flange 19, made up of two thicknesses of metal, the flange being soldered or otherwise secured to the main

body of the cover, there being a strengthening-wire 20 above the flange, the sheet metal of which the cover is composed being bent over the said wire. The cover 18 is provided with handles 15^a, through which there are passed rods 16^a, which are supported by brackets 17^a. At one end of the cover I form an opening 18^a, which is normally closed by a flap 21, and to the ends of the boiler-body I secure pockets 22.

Upon the end walls of the boiler-body I mount bearings 23, which support the trunnions of a cylinder 30, the end walls of said cylinder being formed with openings b , while the peripheral face of the cylinder is made up of a series of corrugated-metal strips 25. This cylinder is formed with a cover 31, connected to the main body of the cylinder by hinges 32 and held to place by catches 33. To one of the cylinder-trunnions I connect a crank-arm 34.

In operation, water is placed within the washer-body and the clothes to be cleansed are placed within the cylinder. Then as the water boils steam will pass upward through the clothes, and a few turns of the cylinder at intervals will bring about a thorough cleansing of such clothes, the corrugated plates 25 acting as the ribs of an ordinary wash-board as the cylinder is turned. Should the water boil so fiercely as to rise to the opening 18^a, any water passing out of said opening would be caught by the pocket 22 beneath the opening, the flap 21 acting as a safety-valve and serving to relieve the washer of any undue pressure.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

In a washing-machine, the combination, with the washer-body 10, provided with the pockets 22, of the cover 18, provided with opening 18^a, and the flap 21, hinged to the cover above the said opening, substantially as and for the purpose set forth.

WILLIAM KLAHR.

Witnesses:

T. M. GASS,
J. H. IMMEL.