M. ANGERT.

HAND RUBBER.

APPLICATION FILED AUG. 28, 1909.

978,534. Patented Dec. 13, 1910.

Fig. 1,

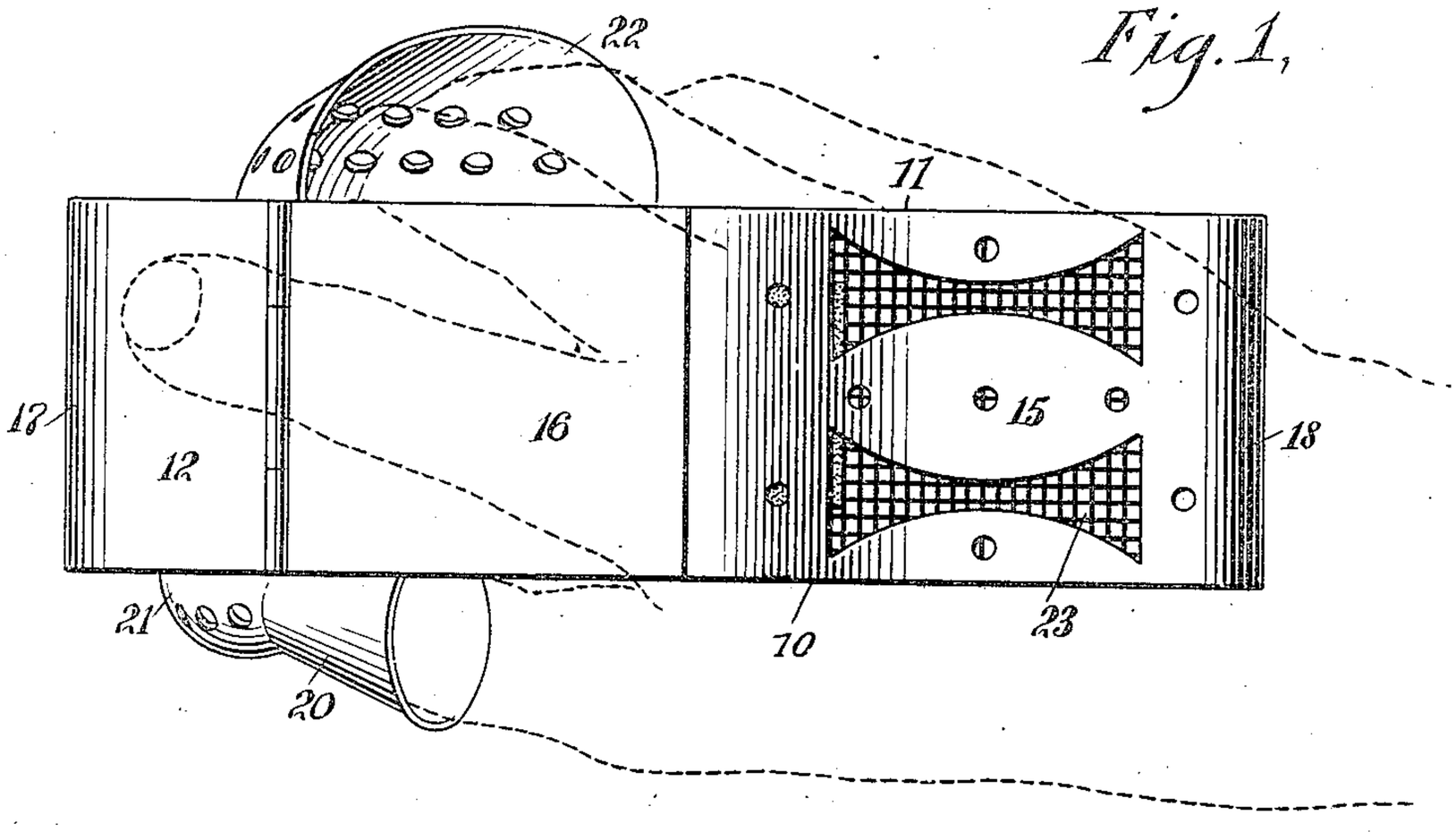

Fig. 2,

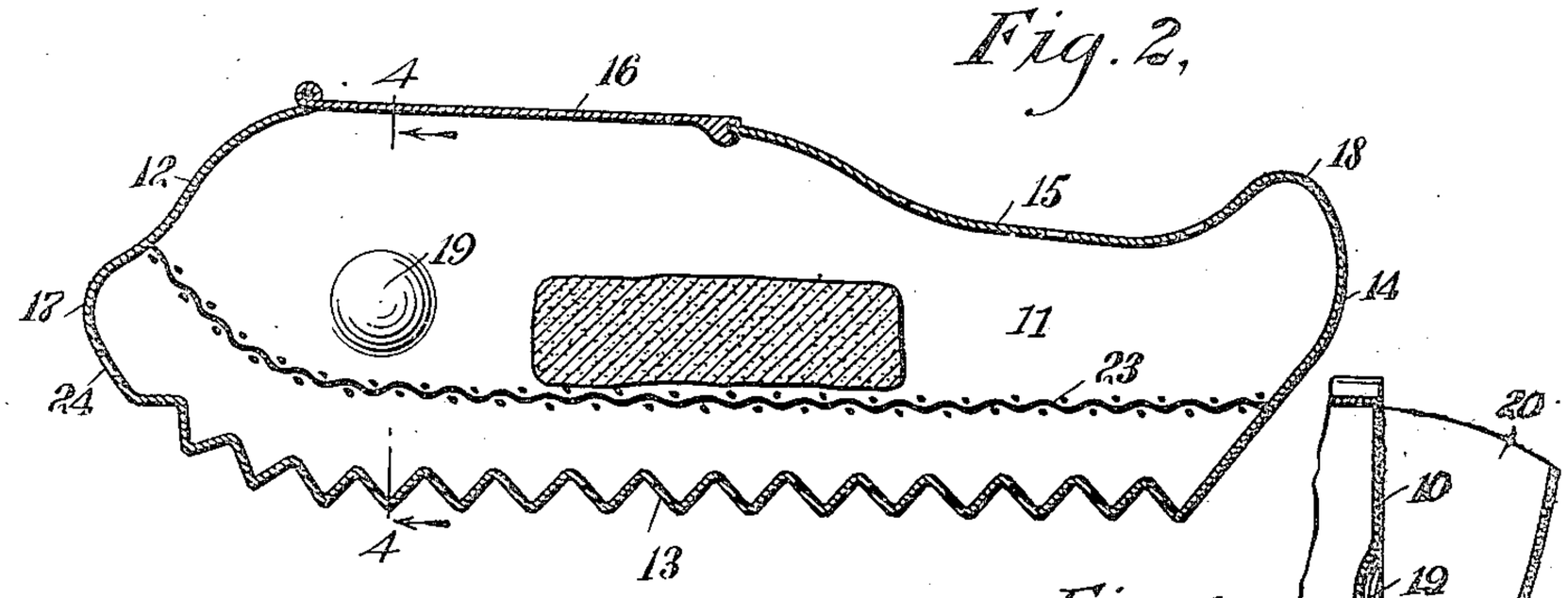

Fig. 3,

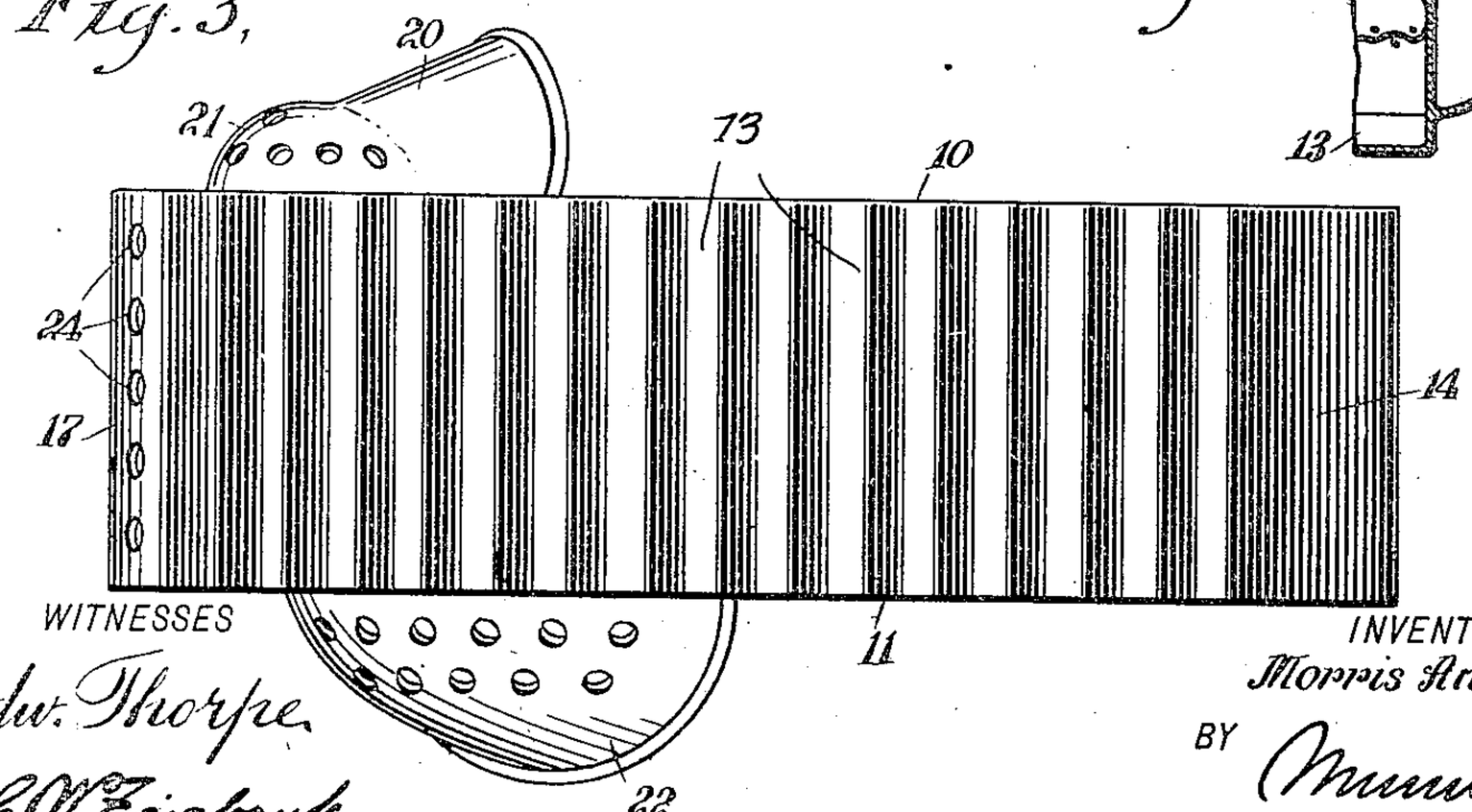

Fig. 4.

WITNESSES

Edw. Thorpe.

E. W. Fairbanks

INVENTOR

Morris Angert

BY Munn & Co

ATTORNEYS

UNITED STATES PATENT OFFICE.

MORRIS ANGERT, OF NEW YORK, N. Y.

HAND-RUBBER.

978,534. Specification of Letters Patent. Patented Dec. 13, 1910.

Application filed August 26, 1909. Serial No. 514,724.

To all whom it may concern:

Be it known that I, MORRIS ANGERT, a subject of the Czar of Russia, and a resident of the city of New York, borough of Manhattan, in the county of New York and State of New York, have invented a new and Improved Hand-Rubber, of which the following is a full, clear, and exact description.

This invention relates to certain improvements in hand rubbers for use in washing clothes, and more particularly to that type of rubber which presents a roughened under surface and which is adapted to contain the soap or other detergent and deliver the same to the material being washed.

The object of the present invention is to so construct the device that it may be more easily and more firmly held in the hand while being operated, and whereby the hand of the operator will be protected from coming in direct contact with the clothes.

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

Figure 1 is a top plan view of a device constructed in accordance with my invention; Fig. 2 is a central longitudinal section; Fig. 3 is an inverted plan view; Fig. 4 is a sectional detail on the line 4—4 of Fig. 2.

My improved device is preferably formed of sheet metal and is of such size and such shape that it will comfortably fit the hand. The device has two opposite substantial parallel side walls 10 and 11 and a circumferential wall formed of a single piece of metal. This circumferential wall starts upon the upper side of the device adjacent the front end thereof and extends outwardly across the front to form a front wall 12 and thence rearwardly to form the bottom wall 13. This bottom wall is corrugated transversely and fits the notched lower edge of the two side walls. At the rear of the corrugated bottom the sheet of metal extends upwardly to form a rear wall 14 and thence forwardly to form a top wall 15. The front edge of the top wall terminates midway between the ends of the device, and the remaining space between the front endge of the wall 15, and the upper edge of the front wall 12, is filled by a hinged closure 16. This closure is preferably hinged at its front end to the upper edge of the wall 12 and has its rear edge detachably secured to the top wall 15. By hinging the closure at its front end, the rear end will come beneath the palm of the hand and the closure will be positively prevented from opening while the device is in use. The bottom wall 13 curves upwardly adjacent its front end and the front wall curves rearwardly, so that the front end of the device presents a rounded nose 17 which may easily pass over the clothes being washed and cannot catch or tear them. At the rear end of the device the wall 14 curves upwardly and the top wall is concave and extends upwardly at its rear end to form a bead 18, extending transversely of the upper side at its rear end. The concave portion, in advance of this bead and in the rear of the closure 16, is adapted to receive the ball of the hand. The bead engages with the wrist in the rear of the ball of the hand and tends to prevent the device from slipping forwardly out of the hand.

At the front end of the device and upon opposite sides, I provide thumb and finger pockets which facilitate the firm gripping of the device and at the same time protect the hand. The side walls 10 and 11 are each provided with concave recesses 19, so disposed that when the device is properly held in the hand, the thumb will enter one of these recesses and the fingers will enter the recess upon the opposite side.

Upon one side of the rubber there is provided a thumb pocket 20. This pocket is open at the rear end to receive the thumb, and flares outwardly and has its free edge rolled over so that it cannot cut or injure the hand. The pocket at its front end presents a curved end wall 21, substantially concentric with the corresponding recesses 19 and perforated to permit the escape of any water which may collect in the pocket. Upon the opposite side of the device there is a finger pocket 22, somewhat similar to the thumb pocket 20, but larger in size and opening more toward the top of the device than toward the rear. This pocket also flares outwardly, incloses the corresponding recess in the side wall and is perforated for the escape of water. With the hand gripping the device as illustrated in dotted lines in Fig. 2, the thumb will be protected by one pocket and the fingers will be protected by the other, while the recesses 19 facilitate the

firm gripping of the device and the bead or transverse flange 18 tends to prevent the device from slipping forward out of the hand.

The top concave wall 15 is provided with a plurality of openings of various sizes, which prevent the accumulation of any water on top of the rubber beneath the hand and at the same time permit the entrance of the water to the interior of the rubber.

Within the body of the rubber there is provided a reticulated metal partition 23, preferably formed of wire gauze and placed a short distance from the corrugated bottom 13. This partition serves to support soap or other solid detergent, so that the water may gain access thereto, yet the water in surging from the rubber will not act upon the soap to any great extent. At the front end of the device and just below the nose portion 17, there is provided a transverse row of apertures 24, through which the soapy water may escape on to the clothes directly in advance of the corrugated or roughened rubbing surface 13.

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

1. A hand rubber comprising oppositely disposed sheet metal side walls, a circumferential sheet metal wall including a front wall and a corrugated bottom wall, a rear wall and a top wall, each merging into the other by curved intermediate portions, and a hinged closure extending from the upper edge of the front wall to the front edge of the top wall.

2. A hand rubber, comprising oppositely-disposed sheet metal side walls provided with cavities or recesses to receive the thumb and fingers, a circumferential sheet metal wall secured to said side walls and having a corrugated bottom, a top having a perforated concave portion adapted to receive the ball of the hand, a rear wall, and a perforated inclined front wall, perforated sheet metal pockets secured to said side walls adjacent said recesses, for protecting the thumb and fingers, and a closure hinged to the upper edge of the front wall and having its free end extending to the front edge of the top wall.

3. A hand rubber, comprising a container having oppositely-disposed sheet metal side walls, each provided with a concave recess to receive the ends of the thumb and fingers, and upwardly and rearwardly-inclined perforated sheet metal pockets secured to said side walls and serving to protect the thumb and fingers.

4. A hand rubber, comprising a container having oppositely-disposed side walls, and upwardly and rearwardly extending perforated sheet metal pockets secured to said side walls adjacent the front end of the latter and adapted to receive the ends of the thumb and fingers, and said container having a transverse concave portion in the top wall thereof adjacent the rear end to receive the ball of the hand and perforated to permit the drainage of water therefrom to the interior of the container.

5. A clothes scrubber in which is comprised a hollow body provided with an imperforate, corrugated bottom, said body having openings in the top thereof and at the end, a cover at the top of the body, and a wire gauze division within the body, substantially as shown and described.

6. A clothes scrubber in which is comprised a hollow body having an imperforate, corrugated bottom, said body being provided with perforations in the top thereof and at one end, said top being also provided with a depression to accommodate the palm of the hand, finger pieces at each side of the body, and an interior gauze division substantially as shown and described.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

MORRIS ANGERT.

Witnesses:
JOSEPH ELMAN,
MAX ORNSTEIN.