

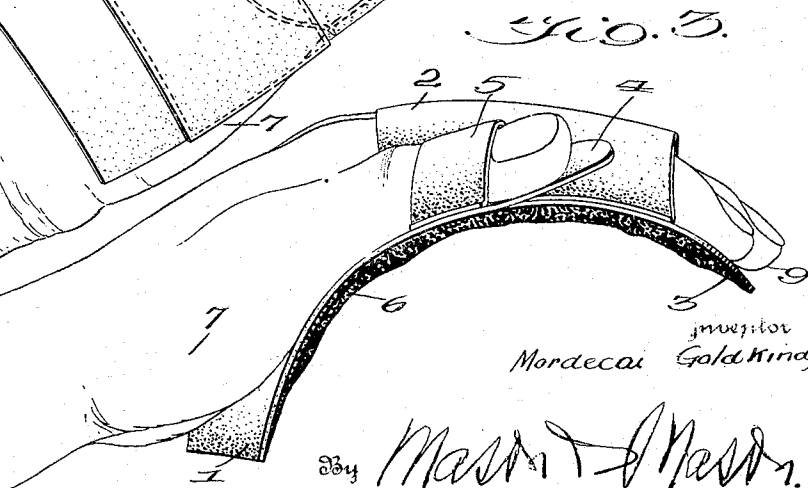
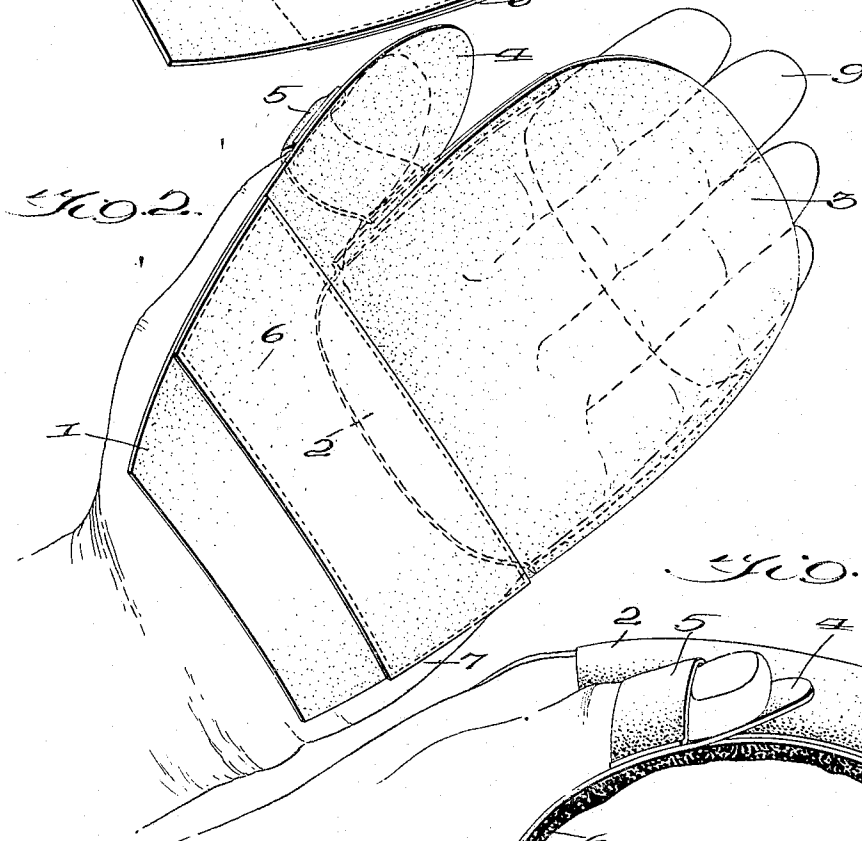
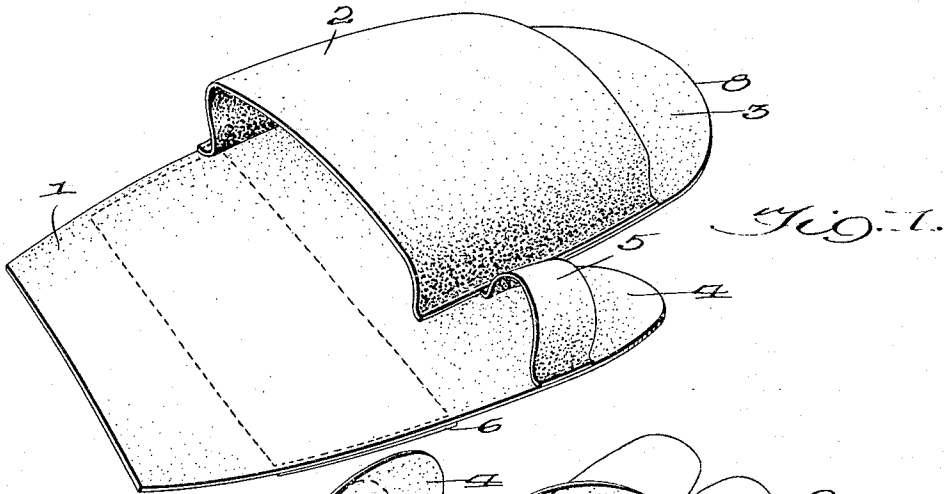
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ELEVATOR OPERATOR'S HAND SHIELD

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UNITED STATES PATENT OFFICE

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ELEVATOR OPERATOR'S HAND SHIELD

Application filed August 26, 1931. Serial No. 559,564.

My invention relates to hand shields, particularly of that kind employed by operators of elevators.

An object of the invention is to provide a hand shield for use by elevator operators which will permit said operators to have the use of the fingers to perform certain operations incident to elevator operation, but which will protect the fingers when the operator's hand is extended to open or close a door.

Another object of the invention is to provide a hand shield for elevator operators which will not wrinkle or become creased during the operation of opening and closing elevator doors.

A further object of the invention is to provide a hand shield which is especially adapted for use of elevator operators and which may be cheaply manufactured in large quantities.

Other objects will appear throughout the specification.

In the drawing Figure 1 is a perspective view of the back of a hand shield embodying my invention.

Figure 2 is a front elevation of the same hand shield as applied to the hand of an operator.

Figure 3 is a side elevation view showing the hand shield disclosed by Figures 1 and 2.

It has long been the practice of elevator operators to employ hand coverings or shields to protect the hands of operators in opening and closing doors of the various floors at which the elevator makes landings as well as the gates which are usually of the lazy-tong type mounted on the elevators themselves. Due, however, to the inconvenience resulting from the use of these gloves they have been largely discarded by elevator operators. One reason for this is that no glove had been devised which would protect the hand and fingers of the operator when opening and closing the lazy-tong gate on the elevator and which would at the same time allow the free use of the ends of the fingers to operate the latches of the various doors provided at the landings. Another reason why such gloves or hand shields have not come into general use is that when the

hand is bent or arched slightly such as is the case when the operator opens or closes the gate on the elevator, the bending of the hand or arching of the fingers of the hand causes the glove to wrinkle and thus makes the operation of opening and closing the gate less positive than when using the bare hand. This invention embodies a hand shield, the end of which does not extend ordinarily to the tips of the fingers so that the latches of the doors at the various landings may be operated with the fingers if desired. However, if the hand be slightly arched the fingers will slide relative to the end of the hand covering to the extent that they will be covered when, for instance, it is desired to operate the lazy-tong gate of the elevator.

Referring to the drawing the numeral 1 designates the hand shield which has a covering 2 to admit the hand of the operator and hold the hand shield in place on the same. 3 indicates the upper portion of the hand shield which covers the fingers but not the tips thereof when the hand is held straight. 4 indicates the thumb portion which has a back portion 5. 6 indicates a reinforced portion adjacent the heel of the hand covering. 7 illustrates the hand of an elevator operator having the hand shield located in proper position thereon. The numeral 8 indicates the upper edge of the hand shield which as shown in Figure 2 ordinarily does not cover the tips of the fingers but which covers said finger tips when the hand is slightly arched as shown in Figure 3.

In the operation of my improved hand shield, when it is desired say, to open the car gate and landing door to permit ingress and egress of passengers, the car gate is first operated. This is performed by extending the arm of the operator to grasp the handle of the gate and pull the same toward him. When my improved hand shield is used under such circumstances, at the time the arm is extended the hand is slightly arched as indicated in Figure 3 at which time the fingers slide relative to the portion 3 until said portion covers the tip ends of the fingers. The handle is thus grasped and the gate is pulled toward the operator, the portion 3

thus contacting with the handle the fingers being out of contact therewith. As the gate is opened the hand is straightened and the latch of the landing door operated. The door
 5 may then be slid to its open position by contacting other portions of the hand shield with the door after it be pushed away from the operator. This can be done by contacting portion 6 of the hand covering with the
 10 door or any other portion of the hand shield. When the reverse operation takes place the landing door is pulled to closed position by extending the arm and arching the hand slightly as shown in Figure 3, the part num-
 15 bered 3 being used to pull the door to closed position. The gate is then closed by pushing the same away from the operator by using the heel 6 or any other suitable portion of the hand shield. If the landing doors or
 20 car gates are located in different positions relative to the operator from those above described, for instance if the elevator gate is located on the other side of the opening from that which the operator stands, the
 25 sequence of the operations will be the converse of that stated above, and if the landing door is on the opposite side of the operator the converse of the operations described will be performed. Covering of the fingers
 30 by arching the hand is usually performed only when the hand is extended as this is the preferred method of operation. However it will be apparent that the hand may be arched and thus cover the end of the fingers for
 35 any operation desired whether the arm be extended, partially extended or entirely unextended.

It will be noted that the portion 3 of my improved hand shield does not wrinkle to
 40 any appreciable extent as it slides relative to the fingers as indicated by Figure 3 of the drawing.

I prefer to construct my improved hand shield of leather or other suitable material.
 45 The back portions 2 and 5 may be of leather or of elastic webbing or a combination of these materials. More than one of the backs 2 may be provided of the materials above described, as this forms no part of my inven-
 50 tion, only one of said backs have been shown.

My improved hand shield is constructed and adapted for the use of elevator opera-
 tors and is so described and claimed herein.

I desire to comprehend within my inven-
 55 tion all uses and adaptations within the limits and as defined by the scope of the appended claim.

I claim:

A hand shield, for use by elevator opera-
 60 tors comprising a sheet of flexible material having a thumb portion adapted to cover the entire thumb of the operator, a finger portion of curved outline, the highest portion of the curve being adjacent to the longer
 65 fingers and the lowest portion being adja-

cent to the little finger so as to cover all but the tips of the fingers in one position of the hand to cover the tips of the fingers in another position of the hand, and a back portion covering the lower portion of the fingers to
 70 prevent wrinkling of the shield when the hand is arched and the tips of the fingers covered.

In testimony whereof I have hereunto set my hand this 22nd day of August, A. D. 1931.

MORDECAI GOLDKIND.

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