J. O. VON STETTEN.

GARMENT FORMER.

APPLICATION FILED MAY 6, 1915.

1,174,455. Patented Mar. 7, 1916.

FIG. 1

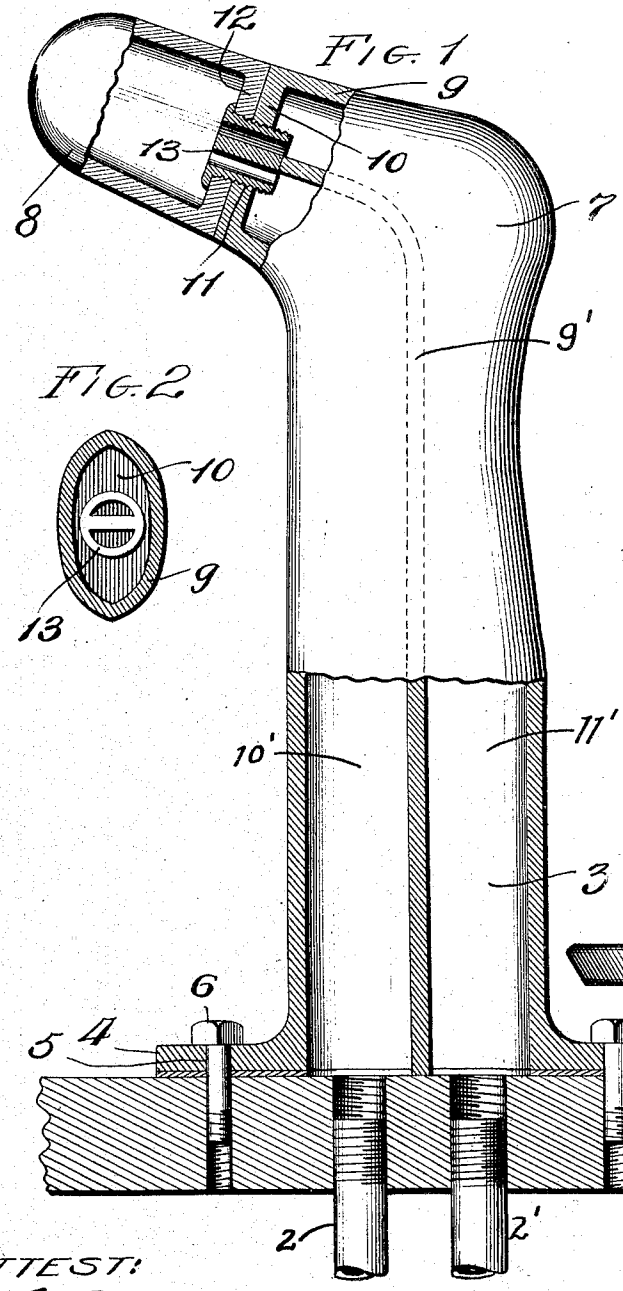


FIG. 2

FIG. 3

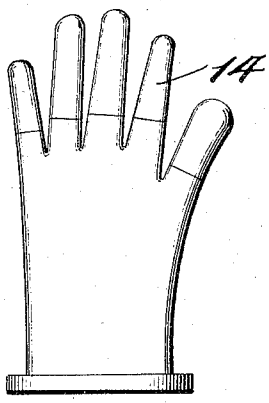


FIG. 4

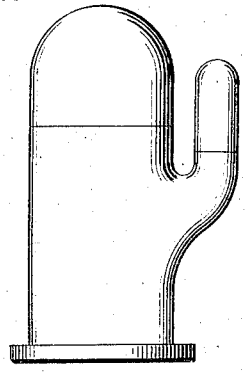
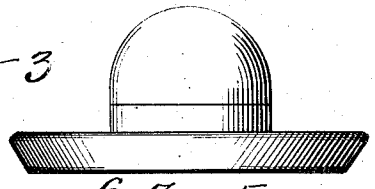


FIG. 5



ATTEST:

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GARMENT-FORMER.

1,174,455. Specification of Letters Patent. Patented Mar. 7, 1916.

Application filed May 6, 1915. Serial No. 26,399.

To all whom it may concern:

Be it known that I, JULIUS OTTO VON STETTEN, a citizen of Austria, and resident of St. Louis, Missouri, have invented certain new and useful Improvements in Garment-Formers, of which the following is a specification containing a full, clear, and exact description, reference being had to the accompanying drawings, forming a part thereof.

The objects of my invention are to construct a garment former which when used for laundry purposes will dry and iron the hose, gloves, mitts and caps or hats in one operation by simply slipping the commodity over a form of proper shape and when used for knitting mill purposes may be used as a form for the manufacture of the commodity as well as an ironer.

The conventional method of ironing and drying hose, for example necessitates several operations which require great labor and time. With the use of my devices, the operation of drying and ironing is practically instantaneous. As the forms must fit the commodity, my devices are arranged so that by displacing one part all the remainder may be used with all the varying sizes.

Simplicity, low cost of operation, labor saving and speed in operation are among my principal objects.

With the above and other objects in view, my invention has relation to certain novel features of construction and operation, examples of which are described in the following specification and illustrated in the accompanying drawings in which:

Figure 1 is an elevation, partly in section, of a device embodying my improvements. Fig. 2 is a detail sectional elevation taken through the toe of the device. Fig. 3 is an elevation showing my invention in the form of a glove ironer or shaper. Fig. 4 is an elevation of a mitten ironer and shaper made in accordance with my invention. Fig. 5 is an elevation of a hat machine made in accordance with my invention.

The principle of operation is the same in all the forms. My description will therefore be limited to that of Figs. 1, 2, only the specific differences between Figs. 3, 4 and 5 and Figs. 1 and 2 being shown.

1 designates the top of a steam table, 2 a source of steam supply, 2′ a steam exhaust and 3 the hollow body or stand of the device, which terminates at its lower extremity in the flange 4, having bolt holes 5 therein, and is secured to the steam table 1 by means of the cap screw 6 which passes through the bolt hole 5 and into the steam table 1. The upper end of the device terminates in a hollow casting having approximately the shape of a human foot of which 7 designates the heel and 8 the toe portion, and 9′ a longitudinal partition extending through the cap 13. The hollow stand heel and toe portion of the hollow foot can all be made integral (only the stand and heel portion are shown integral in the figure) without departing from the spirit of my invention. When so made, the operation of my device is as follows: The steam is admitted through a source of steam supply 2 (about 50 pounds pressure is most efficient) and permitted to fill the inside of the partition 10; pass into the hollow toe portion 8, then back into the compartment 11′ into the exhaust 2′ of the device causing its external contour to be evenly heated. When in this condition, the wet hose that are to be dried and ironed are taken from a mangle or other machine in a wet state and slipped over the form. In an instant the sock or stocking will be dried and ironed, when by a pull on the toe, it can be easily removed. From the cross-section Fig. 2, it will be discerned that the shape of the foot is elliptical rather than having the exact contour of the human foot. There is no particular utility resident in the shape of cross-section shown, except possibly a facility in manufacture. The cross-section of the stand 3 is similar to that shown in Fig. 2. By this means a very efficient swift and inexpensive hose ironer is obtained. The partition 9′ and exhaust 2′ are necessary in order to have the steam circulate, to prevent the formation of an air pocket in the toe portion thereby preventing the toe portion from becoming heated. The difference in foot sizes of various hose, makes a large number of these ironers necessary. It is to obviate this that I have designed my ironer as shown in Fig. 1. It is a noteworthy fact that within reasonable limits the variation of foot sizes of hose for the human foot does not take place in either the heel or toe, but in the length along the region designated 9 on Fig. 1. Relying on this fact I have made toes on my device interchangeable and of different lengths, and secured to the heel portion by means of the device shown.

10 is a partition in the heel portion having a circular threaded hole 11 in its center. The diameter of this hole must be slightly less than the minor diameter of the elliptical cross-section of the foot, but not so small as to materially restrict the steam in its travel through the hole.

12 is a partition in the toe 8 having a hollow external threaded cap 13 firmly secured at its center. The external diameter of the cap 13 is equal to the diameter of the hole 11, so that cap 13 and toe 8 may be screwed into the hole 11 and hence onto the heel 7. By the proper design of cap, hole and threads, toe 8 may be screwed tight so that partitions 10 and 12 will be adjacent each other. By this means any length of toe piece can be used, a tight seam joint between the heel and toe is obtained as well as an absolute continuity of the external surfaces of the heel and toe when the toe is screwed tight. All these conditions must be fulfilled in order to make this interchangeable device operative.

Fig. 3 represents a hollow casting, having the shape of the human hand, the use of which is similar to that of the hose ironed; the fingers 14 are interchangeable for different lengths, as is the toe 8 in the hose ironer.

Fig. 4 represents a hollow casting having the shape of a mitten used for the human hand, the use of which is similar to that of the hose ironer; the thumb and upper portion being interchangeable for different lengths as is the toe 8 in the hose ironer.

Fig. 5 represents a hollow casting having the shape of a hat used for the human head, the use of which is similar to that of the hose ironer; the crown portion being interchangeable for different heights.

I do not wish to be limited to these forms. These devices can be used for forms in knitting mills as well as for ironers in laundries, in fact that is the biggest field for their use.

What I claim is:

In a device of the class described, a hollow form having a partition therein, a removable element, forming a continuation of said hollow form, an element forming a connection between said removable element and the hollow form, a partition in said connection forming element, and means whereby the hollow form may be connected with a source of heating medium.

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

J. O. V. STETTEN.

Witnesses:
H. R. AMELING,
MILDRED STOCKER.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."