Feb. 14, 1928. 1,659,097

C. GYGI

STEAMING AND DRYING APPARATUS

Filed Sept. 28, 1926 2 Sheets-Sheet 1

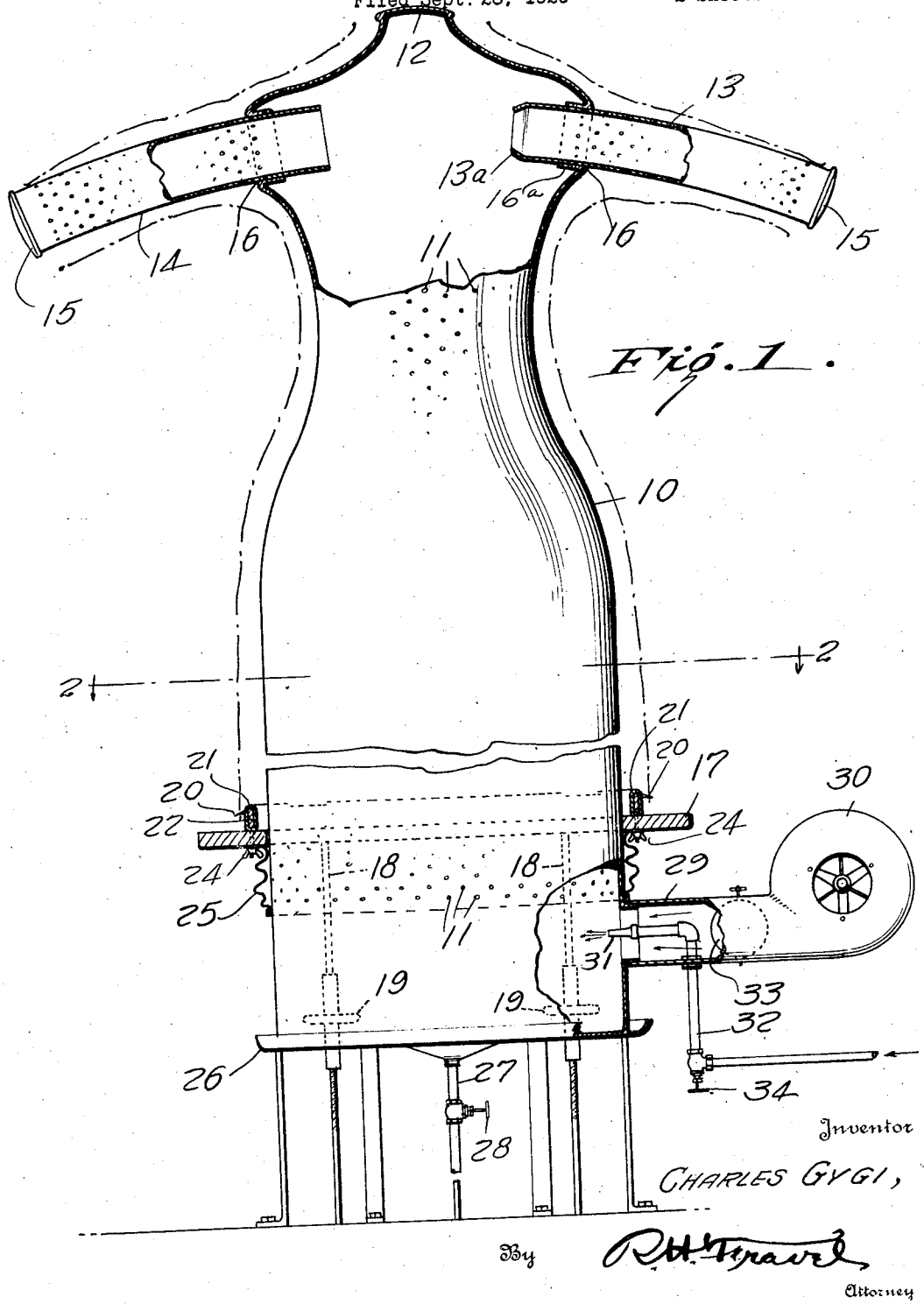


Fig. 1.

Inventor

CHARLES GYGI,

By

Attorney

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Fig. 2.

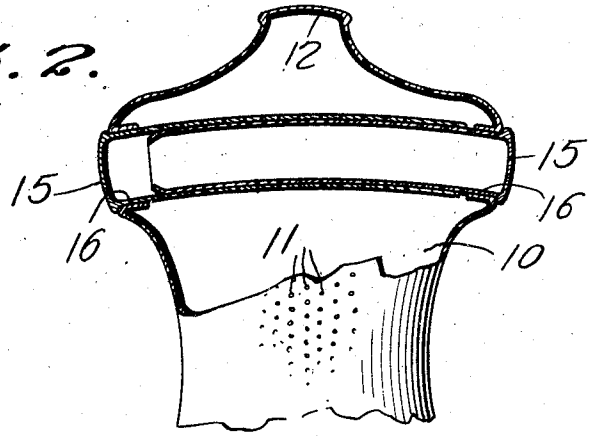


Fig. 3.

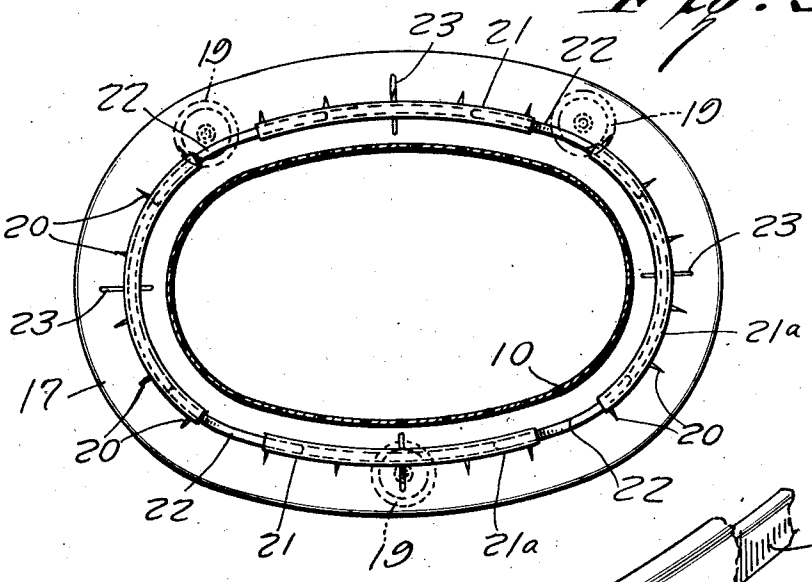
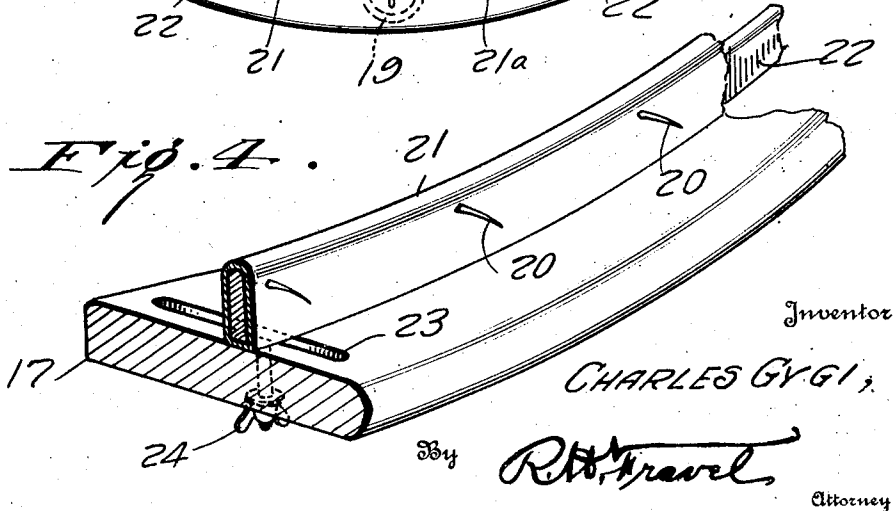


Fig. 4.



Inventor

CHARLES GYGI,

By R. H. Travel

Attorney

Patented Feb. 14, 1928.

1,659,097

UNITED STATES PATENT OFFICE.

CHARLES GYGI, OF NORFOLK, VIRGINIA.

STEAMING AND DRYING APPARATUS.

Application filed September 28, 1926. Serial No. 138,318.

The present invention relates to devices for steaming, fumigating and drying garments and has for its object the perfecting of an adjustable mechanism on which the above operation may be carried out quickly and economically, and in a superior manner.

A further object is to so construct the device that a garment placed thereon may be steamed and dried without removing it from the device and at the same time to so dry the garment that it will be free from wrinkles or creases, thereby doing away with the necessity of ironing.

Further objects are to construct the device so that it may be adapted to sleeved or sleeveless garments without undue loss of steam or hot air in operating thereupon, and to afford adjustment of the device to suit it for different length garments.

In carrying out the above objects, I provide a foraminous form shaped in a general way like the garments to be treated thereupon; said form having collapsible telescoping sleeves and an adustable annular platform carrying an adjustable ring thereon. I also provide means for injecting into the interior of said form a jet of steam and a blast of hot air.

Referring to the drawings:

Figure 1 shows a form of the invention in elevation.

Fig. 2 is a detail view showing the sleeves in telescoped position.

Fig. 3 is a section on line 2—2, Fig. 1, showing in detail an adjustable ring for holding the lower end of the garment tight against the adjustable platform.

Fig. 4 is a detail on an enlarged scale showing a means for adjusting the ring relative to the platform.

In the figures mentioned above, 10 represents a hollow form shaped in a general way like the bust and torso of a person, which form is provided with a plurality of small suitably spaced apertures 11, the portion 12 being without apertures, thereby preventing escape of steam or air except through the garment.

In order to adapt the device to be used with sleeved or sleeveless garments, cylindrical arms 13 and 14 are provided perforated throughout their length but having non-foraminous ends 15 adapted to cover and close the apertures 16 in the form surrounded by shoulders in the form of a cylindrical flange 16ª through which the arms slide. The opposite inner ends of the arms are open. In order to economize space and thereby afford as long arms as possible, one of the arms 13 is made of lesser diameter than the other so that it may snugly slide thereinto when the arms are collapsed, as shown in Fig. 2, and the inner end of said arm 13 is beveled inward at 13ª to facilitate its entering arm 14.

The device is designed to be used for various lengthened garments and, in order that there may be no escape of steam or hot air in the treatment of a garment except through the fabric of the garment, a baffle member in the form of an annular platform 17 is provided which may be adjusted lengthwise of the form by any suitable means as by adjusting bolts and nuts 18 and 19. The bottom of the garment is held against being blown upward on the form by the blast of steam or hot air by any suitable means, as by means of pins 20 projecting laterally from a ring 21 mounted for expansible adjustment laterally on the platform 17. The ring 21 is formed in sections 21ª connected by flexible members 22 telescopically slidable therein, the sections 21ª being made hollow for that purpose. Slots 23 are formed in the platform 17, and lock nuts 24 are provided for clamping the sections in their adjusted positions. An apron 25, which is preferably of flexible material practically impervious to steam or hot air, is provided to prevent the escape of steam and air below the platform, and a drip pan 26 is located at the bottom of the form to collect products of condensation which may be carried off through an outlet tube 27 controlled by a cock 28. The apron 25 may be attached to the bottom side of the platform and to the form 10 below the perforations 11.

Communicating with one side of the form 10 is an air passageway 29, in which may be located any suitable means for forcing a blast of hot air into the form 10, as a fan 30. Concentrically located relative to said

passageway 29 is a nozzle 31, connected by pipe line 32 with a suitable source of steam (not shown), whereby a jet of steam may be injected into the form 10. The passageway 29 may be controlled by a damper 33 and the flow of steam by a cock 34.

The operation of the invention is as follows: Supposing the device is of the form as shown in the drawings as adapted for women's dresses. The garment is placed on the form 10, and if the garment has sleeves, the arms 13 and 14 are drawn out so that the ends 15 extend to the lower ends of the sleeves, the platform 17 is raised or lowered so as to just touch the bottom of the skirt, and the ring 21 is adjusted to the diameter of the lower end of the skirt and so that the pins 20 will extend through the fabric, holding the lower end of the skirt from being forced upward when the blast of steam or air is turned on.

When the garment is so placed, steam is first turned on by opening the cock 34, and allowed to play on the garment as long as desirable for the purpose at hand, and then a blast of air, preferably hot, is turned on with sufficient force to distend the garment to its complete fullness, whereupon the garment will be dried free from wrinkles or creases, and thereby eliminating the necessity of ironing the garment.

It is to be understood that the embodiment of the device in the form shown and described in the present application is merely illustrative and that it may assume various other forms suitable for the treatment of other forms of garments, that the means for adjustment of the various adjustable parts may assume other forms, and the use of other vapors or gases than air and steam may be injected into the form by the apparatus shown for various purposes other than those described.

Having described my invention, what I claim is:

1. A device for treating garments comprising, a foraminous form, a baffle member surrounding the form and extending outwardly therefrom beyond a garment placed on said form, and adjustable vertically on the form to be brought into contact with the bottom of garments of different lengths and means for forcing fluid through the form.

2. A device of the character described, comprising a forminous hollow form having shoulder apertures, forminous hollow arms slidably mounted in said apertures so as to be adjustable as to length, an adjustable platform surrounding the form and means for injecting fluid into said form.

3. A device of the character described, comprising a foraminous hollow form having apertures therein, a cylindrical flange surrounding each aperture, foraminous hollow arms slidably mounted and snugly fitting in said cylindrical flange, and means for injecting fluid into said form.

4. In a device of the character described, a foraminous hollow form, an annular platform, an adjustable ring on the platform having means for holding the bottom of a garment against the platform, and means for injecting a fluid into said form.

5. In a device of the character described, a foraminous hollow form, extensible hollow foraminous arms, an adjustable platform, an adjustable ring on the platform, and means for injecting a fluid into the form.

6. A device of the character described, comprising a foraminous hollow form having telesoping hollow foraminous arms, provided with non-foraminous ends, platform adjustable longitudinally of the form, a laterally expansible ring on the paltform, means for injecting steam into the interior of the form, and means for forcing air under pressure through the apertures in the form.

7. In a device of the character described, a hollow foraminous form, hollow foraminous arms telescopically adjustable relative to said form.

8. In a device of the character described, a hollow foraminous form having apertures therein, hollow foraminous arms slidably mounted in said apertures for adjustment as to length.

9. In a device of the character described, a foraminous form having apertures therein, hollow foraminous arms one of which is open at its inner end slidably mounted so as to be adapted to project through said apertures and to telescope one within the other when drawn into said form.

10. In a device of the character described, a hollow foraminous form, a platform adjustable vertically on said form to bring it into contact with the lower end of a garment placed on the form, an annular apron secured to the platform and to said form, the latter attachment being below the lowermost apertures in said form.

11. In a device of the character described, a hollow foraminous form, an annular platform encircling said form and adjustable vertically on the form to be brought into contact with a garment placed thereon, said platform extending horizontally beyond the garment at all points in the annular circumference of said platform, and means for injecting a fluid into said form.

12. In a device of the character described, a foraminous hollow form, an annular platform encircling the form, a laterally adjustable ring on said platform having means thereon for gripping the lower end of a garment placed on the form.

13. In a device of the character described, a hollow foraminous form having apertures therein, arms arranged for sliding adjustment through said apertures and adapted to

telescope one within another when drawn into the form, an annular platform snugly fitting about the form and vertically adjustable on the lower end of the form, a ring laterally adjustable on the platform and having means for gripping the lower end of a garment placed on the form, an impervious apron attached to the platform and to the form below the lowermost apertures therein, means for injecting a moistening and means for injecting a drying fluid into said form.

In testimony whereof I affix my signature.

CHARLES GYGI.