April 29, 1941. A. D. GOLDSTEIN 2,240,448

GARMENT

Filed Dec. 15, 1938

FIG. 1.

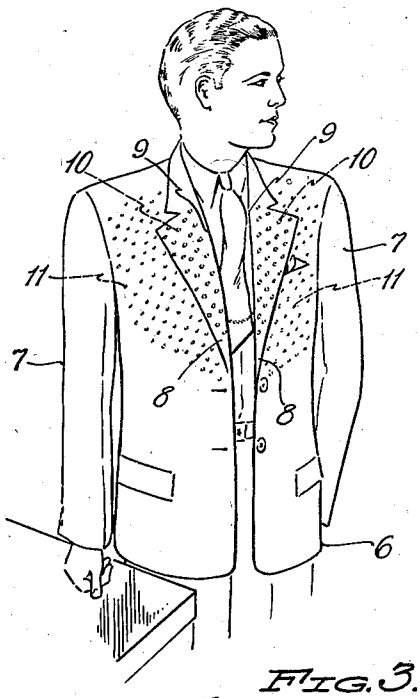


FIG. 2.

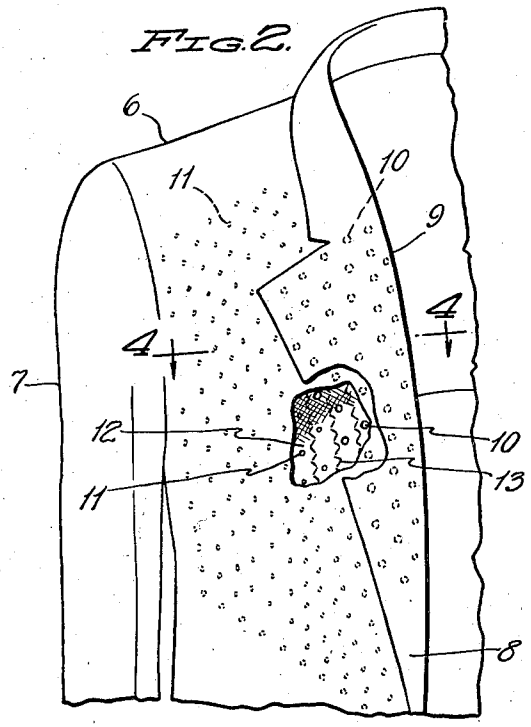


FIG. 3.

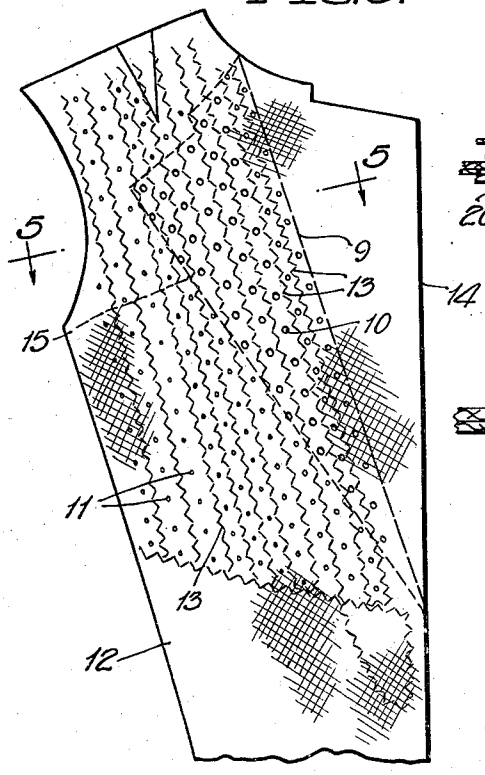


FIG. 4.

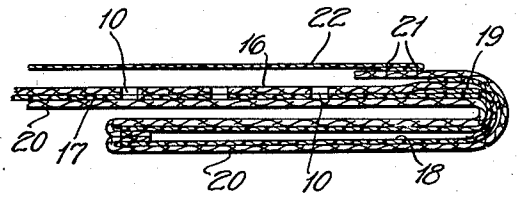
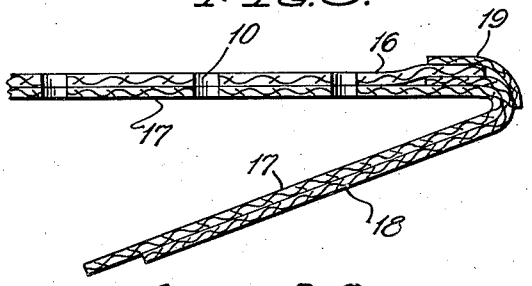


FIG. 5.



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Patented Apr. 29, 1941

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UNITED STATES PATENT OFFICE

2,240,448

GARMENT

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Application December 15, 1938, Serial No. 245,843

2 Claims. (Cl. 2—97)

This invention pertains to garments, and more particularly to a fabricated garment of wearing apparel constructed to provide better ventilation to facilitate the ingress and egress of air through the garment.

Heretofore, various means and methods were employed in the manufacture of garments to obtain a body covering, such as a shirt or coat, which would aid in cooling and refreshing the wearer. A conventional method of obtaining the desired results was to provide metallic, or buttonhole type eyelets, in the garment so that the closed area of the exposed fabric was reduced.

While the use of eyelets may be permissive in certain types of wearing apparel, it may not be desirable in other articles of clothing. An example of this type may be shown where it is thought advisable to ventilate the front of a suit coat without mutilating and detracting from the appearance of the outer covering of a multi-layer garment.

Applicant has overcome the undesirable objection set forth herein, and has obtained a novel invention as set forth in the annexed specification and disclosure.

An object of this invention is the provisions of an air conditioned garment constructed of a plurality of layers of resilient material without changing the outer appearance of the garment.

A further object is to provide a suit coat or jacket with ventilated chest coverings which have a hinged lapel thereover.

Other and further objects may be and may become apparent to those skilled in the art from a perusal of the following specification.

For a better understanding of the invention reference may be had to the drawing in which:

Fig. 1 is a perspective view of the invention, partly shown dotted, to more clearly set forth the novelty.

Fig. 2 is a perspective view, cut away in part to show construction and assembly detail.

Fig. 3 shows part of the internal multi-layers before inserting between the inner lining and the outer covering.

Fig. 4 is a sectional view taken on lines 4—4 of Fig. 2.

Fig. 5 is a sectional view taken on lines 5—5 of Fig. 3 with the lapel folded back.

Referring to the drawing, and particularly Fig. 1, a coat 6, has sleeves 7, and lapels 8, which lapels are folded back at hinges 9 to come in front of perforations 10. The perforations 10, may extend to cover a larger area of the coat front than that embraced by the lapel area, the additional perforations 11, are shown as smaller dots.

The partial perspective in Fig. 2 shows lapel 8, covering the larger perforations 10, while a multiplicity of other perforations are shown as 11, similar to the disclosure in Fig. 1. The cut out partially under the lapel 8, discloses the actual perforations 10, in the filler, or inner layers 12, with stitching 13 intermediate rows of spaced perforations, so that the stitching holds the separate filler layers in fixed superimposed or juxtapositioned relation to one another to maintain the perforations 10, therein in a definite relation one to the other.

An enlarged view of the filler 12, is shown in Fig. 5, wherein the fixed relation of the perforations of the respective layers are disposed in registration. The lapel filler 14 is shown flattened, and the dotted line 15 indicates the lapel folded back in a normal manner so that the unperforated lapel covers the perforations 10 of the inner filler 15, while the perforations 11 are also shown beyond the range of the lapel filler 14, but still having the intermediate rows of perforations separated by stitches 13.

The filler or foundations proper may be made of any suitable material such as linen, canvas which is well known in the art as interstitial material, hair cloth, padding, cotton etc., the selection of materials used depending largely upon the results desired to meet varying climatic conditions such as humidity and temperature. While the invention herein may be used for winter wear, its purpose is to facilitate cooling the human body, reduce perspiration, and permit a light weight, air conditioned coat for summer wear.

The particular construction set forth herein is presented in Figs. 4 and 5. Fig. 5 showing a layer of hair cloth 16, stitched to a layer of linen 17. The hair cloth being particularly suitable for use as a material to give rigidity to a garment and to withstand perforating without unduly fraying when cut with the perforating tools. Part 18 on the lapel may be canvas or linen. A strip of tape 19 is stitched at the folding part 9 to assist as a hinge member.

Fig. 4 shows the foundation having the superimposed interstitial layers 16, 17, 18 and 19 housed or covered by the outer textile shell or exposed suit material proper, 20, being stitched at 21, to the lining proper 22, the latter and the outer shell or covering being as is well known of suitable textile material, the filler layers 16, 17, 18 and 19 being completely encased thereby, while

the perforations 10 of the respective layers, are shown in registry with each other.

In operation, it is pointed out that as the wearer walks or moves his arms, the back of the coat is moved to operate as a bellows to suck in and expel the air, forcing the moving air through the perforations to increase the rate of air change dependent on the actions of the wearer, and the number and size of the perforations thus attaining the objective of an air conditioning without exposing the vents or perforations in the filler. While the invention is presented having two layers of material in the filler or foundation, it is to be understood that the number of superimposed or juxtapositioned layers is not limited thereto since it may be desirable to use three or four thicknesses of material in the filler to accomplish a desired objective in manufacture, and the invention is not restricted except by the scope of the subjoined claims, the expressions superimposed and juxtapositioned being herein used interchangeably although it is apparent from the herein disclosure that it is in the wings of the garment as illustrated where the shape sustaining foundations are arranged, the wings being herein considered as proximal parts of the garment, namely, in front of the usual backing or distal part of the garment as is well known in the art, the sleeves illustrated being preferably secured to the wings and the distal part of the garment as shown.

From the foregoing it will be clear that there are many advantages to the present invention which are not definitely pointed out in the objects but will be more definitely set forth in the claims.

While specific details of the invention have been herein shown and described, the invention is not confined thereto as changes and alterations may be and may become apparent to those skilled in the art without departing from the spirit thereof as defined by the appended claims.

Having thus described the invention what I claim as new and desire to secure by Letters Patent of the United States is:

1. A suit jacket comprising a covering including a distal backing and proximal textile side wings secured to said backing, a textile lining secured to each of said wings, and an elongated textile and flexible foundation interposed between each of said linings and each of said wings for retaining the shape of said jacket, said foundations each comprising a plurality of juxtapositioned interstitial layers secured together in close proximity and having a multiplicity of spaced perforations located widthwise of said wings and along an area lengthwise of said wings substantially between the breast bones and lower ribs of the wearer of the jacket whereby upon respiratory movements of said wearer currents of air pass through said perforations to facilitate dissipating surface heat generated by the body of the wearer.

2. A suit jacket comprising a covering including a distal backing and proximal textile side wings secured to said backing, sleeves secured to said backing and wings, a textile lining secured to each of said wings, an elongated textile foundation interposed between each of said linings and each of said wings for retaining the shape of said jacket, said foundations each comprising a plurality of juxtapositioned interstitial layers secured together in close proximity and having a multiplicity of spaced and registering perforations located widthwise of said wings and along an area lengthwise of said wings substantially between the breast bones and lower ribs of the wearer of the jacket whereby upon respiratory movements of said wearer currents of air pass through said perforations to facilitate dissipating surface heat generated by the body of the wearer along the proximal portions of the chest of the latter, and lapels extending outwardly from and over said wings and disposed in superimposed relation therewith.

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