Jan. 24, 1939. W. L. PAUL ET AL 2,144,728

UNDERGARMENT SHIELD

Filed April 30, 1935

Fig. 1.

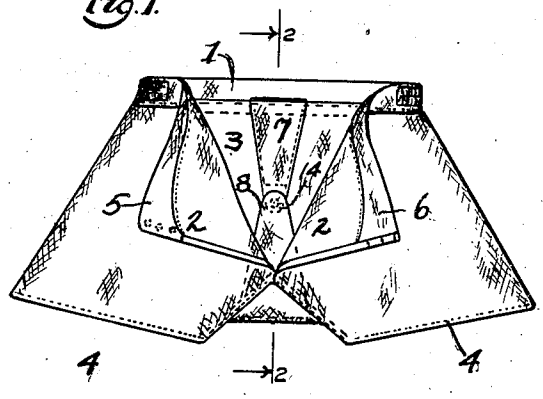


Fig. 2.

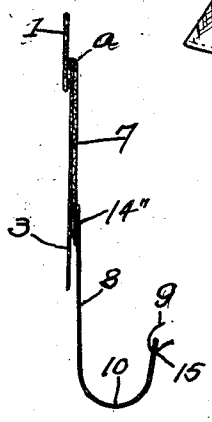


Fig. 3.

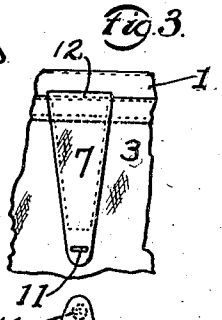


Fig. 4.

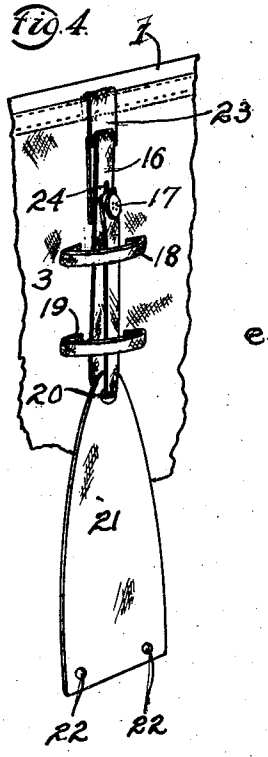


Fig. 5.

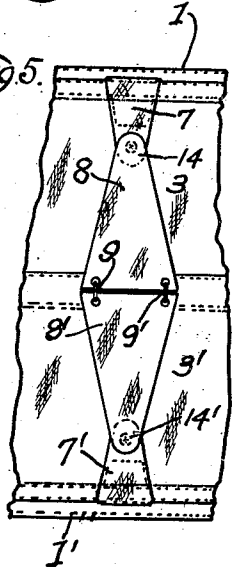


Fig. 6.

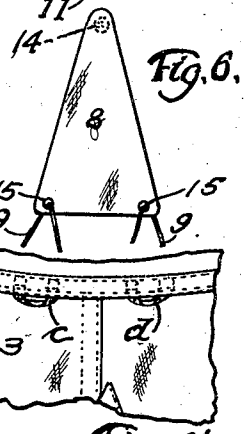


Fig. 7.

INVENTORS,
Wanda L. Paul,
Praxeda C. Patrick,

By Harold D. Penner ATTORNEY

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UNDERGARMENT SHIELD

Wanda L. Paul and Praxeda C. Patrick,
Brooklyn, N. Y.

Application April 30, 1935, Serial No. 19,046

4 Claims. (Cl. 128—287)

The present invention relates to an improvement in undergarments, and is particularly directed to a protective absorptive, shield means to be applied to drawers, shorts, pajama trousers and the like, thereby to protect the seat or crotch portion of such wear from inadvertent soiling.

A further feature of the present improvement is in the manner of applying, and removably maintaining the shields in operative position under all conditions of body posture and movement.

Another feature of advantage is in the utilization of material for such shields so that, if desired, they may be readily laundered, or, on the other hand they may be made of low cost cellulosic material and disposed of, after wear.

The foregoing and other features will be apprehended as the herein description proceeds, and it is obvious that modifications may be made in the structure herein without departing from the spirit hereof or the scope of the appended claims.

In the drawing,

Fig. 1 is a view in elevation, with the flys thrown open, of a characteristic type of drawers;

Fig. 2 is a fragmentary sectional view taken on line 2—2, Fig. 1 looking in the direction of the arrows;

Fig. 3 is a fragmentary enlarged view of the rear portion of the waist-band and shield attaching means;

Fig. 4 is an enlarged fragmentary view of a modified form of shield attachment to a garment;

Fig. 5 is a fragmentary view of a further modified form of shield attachment showing the use of duplex shields for use in feminine wear;

Fig. 6 is a view in elevation of one form of shield; and

Fig. 7 is an enlarged, fragmentary view of the inside seam part of the leg portion at or near the seat portion, disclosing another mode of shield attaching means thereon.

As in Fig. 1, the drawers, of any type, is provided with a waste band 1, to which is attached, by any suitable mode, a free swinging tab 7, the upper end *a* of which, Fig. 2, is attached to the juncture of the rear portion 3 of the drawers and the waist-band 1, by sewing 12, or otherwise.

The lower free end of the tab is provided with a button hole 11, Fig. 3, into which goes a button 14, which may be attached to a removable replaceable shield 8, Figs. 1, 2 and 6. The conditions here may be reversed, and the button hole may be on the shield, with the button on the tab.

The tab 7 is located over the mid-part of the seat portion 3, Fig. 1, so as to maintain any attached shield 8 in crotch contacting position.

The inside leg seam part *e* of the garment, near the seat portion 3, Fig. 7, is provided with two suitably affixed tape loops *c* and *d*, these being utilized to receive tie-cords 9—9, which are woven through apertures 15—15, Figs. 2 and 6, located at the bottom of the protector 8, as viewed in Fig. 6, and the cords 9—9, thereafter tied, leaving the shield 8 looped in the garment, as at 10, Fig. 2. As thus looped, the shield 8 is in crotch protective assembly to the garment.

Another form of shield mounting is disclosed in Fig. 4, in which a looped tape 23 is sewed to the waist-band 1, and the end of an elastic webbing 16 looped therethrough. This webbing may have a button 17 sewed thereon at one end thereof and the webbing 17 provided with button holes such as 24, so as to permit of adjustment of the shield 21, through which the webbing 17 is looped at the button hole or loop-slot 20.

Two spaced transverse straps 18 and 19 are sewed by their ends to the seat portion 3 of the garment as at Fig. 4 through which the webbing 16 is threaded through both alined loops, and thus is held with its protecting shield 21 in crotch covering position. In this latter shield 21, there are two spaced apertures 22—22 at the lower end and these are utilized to receive tie cords, not shown, for the same purpose as described for Fig. 6.

In Fig. 5, there is shown a further modified form of shield protector, which is in reality a doubling of the structure of Figs. 1, 3 and 6, thus being in duplex form, and is adapted for use on feminine wear.

Two tabs 7—7' are hemmed to the waist band 1—1', and the free ends may have a button or a button hole fastening means 14—14', whereby to operatively support the duplex shields 8—8' in crotch contacting position. The outer small ends of the shields may also be provided with buttons or button holes to coact with fastenings 14—14 of the tab ends, for removable support of the shields.

At the central meeting points of the shields 8—8' they may be tied through the shown apertures by lacing, or tie cords 9—9, or the shield 8—8' may be combined in a single piece, thus covering the crotch portion of the garment from waist-band to waist band.

From the foregoing it will be ascertained that we have provided a garment protector which is connected to the garment for easy release therefrom for replacement, and is suspended at independent outer points for free floating, non-binding movement of the protector, thus making it

self-adjustable to body postures independently of the movement of the garment to which it is attached.

Having thus described the invention what is claimed is:

1. An under garment comprising a transverse crotch seam and including a waist band having permanently incorporated with its back part inner supporting means including a relatively small depending end; a detachable shield having a small back end, a wide end disposed linearly with the seam and having lateral attaching portions; means releasably attaching said small ends; and means permanently attached to the garment and including portions which releasably cooperate with the first mentioned portions.

2. The combination with an under garment having waist band and transverse crotch seam members, of separate inner shield supporting means stitched into said members; an elongate absorbent, detachable shield; and means releasably attaching the opposite ends of said shield to the first mentioned means.

3. The combination with an under garment having a waist, and a transverse crotch seam; of a front sanitary shield having a wide end disposed at said seam, a front end extending from the wide end and being relatively small; a back shield having a wide end like the first wide end and mating therewith, said back shield having a small back end; back and front means depending from said waist and releasably holding the small ends separately, and flexible means releasably holding said mating ends one to the other, whereby a selected shield may be removed for separate replacement.

4. An under garment comprising in combination a lower body covering portion including a waist band, leg portions having a transverse crotch seam; separately detachable front and back shields, said shields having wide ends disposed on said seam and there being opposed apertures in the lateral parts of said ends; flexible elements passed through said apertures and releasably tying said ends together; said shields having relatively narrow forwardly and backwardly extending ends, each of said latter ends having on its outer face a button; and front and back shield supports attached to said band and having depending ends, each of said depending ends having therein a buttonhole, all substantially as set forth.

WANDA L. PAUL.
PRAXEDA C. PATRICK.