Aug. 26, 1952 S. F. STEIN 2,607,922

FLY CONSTRUCTION FOR GARMENTS

Filed June 10, 1948

Fig. 1

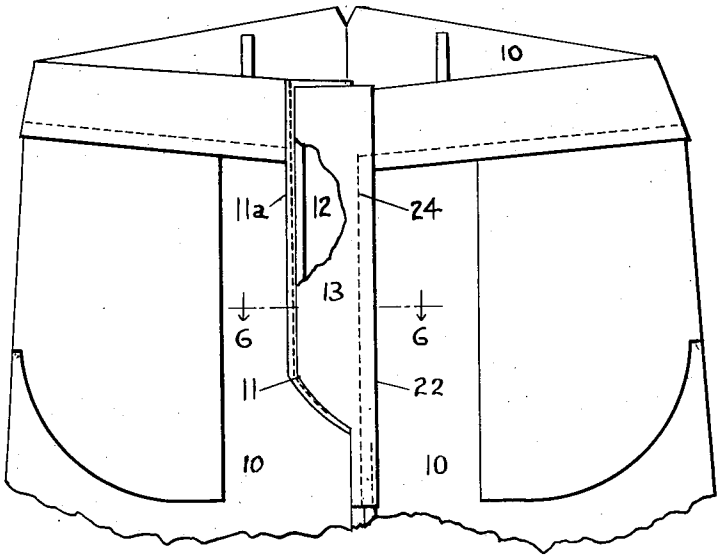


Fig. 2

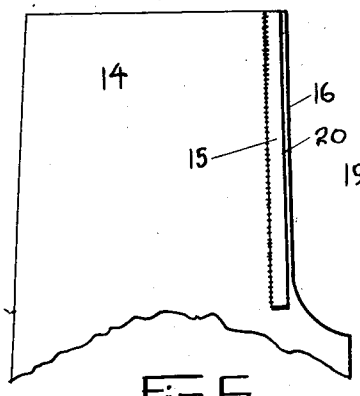


Fig. 3

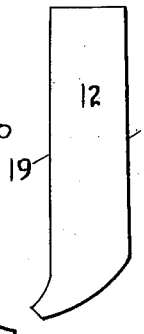


Fig. 4

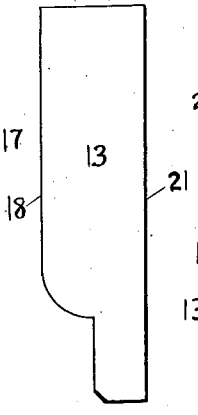


Fig. 5

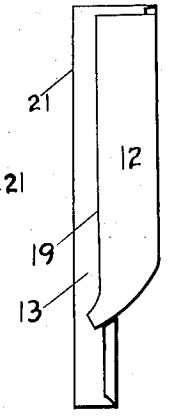
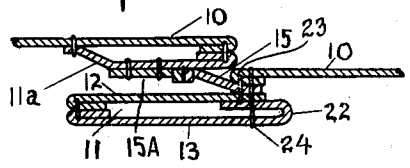


Fig. 6



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FLY CONSTRUCTION FOR GARMENTS

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Application June 10, 1948, Serial No. 32,280

3 Claims. (Cl. 2—234)

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My invention relates to men's and boys' trousers and more particularly to trousers that are equipped with a zipper closure at the fly opening.

The customary fly construction of trousers comprises right and left fly pieces usually formed of the same material as the trouser material, the right hand fly piece being lined with a fly lining. These fly pieces are attached to the respective adjacent edges of complementary foreparts constituting the front part of the trousers. A slide fastener known as a zipper comprises two strips of tape, to the adjacent edges of which are attached certain metal elements accurately spaced in relation to one another. The metal elements of one of the strips are made to fit into the spaces between the elements of the other strip and thus the elements become fastened with one another by means of a V-shaped slider being moved upwardly and the zipper is closed, and by moving the slider in the opposite direction the zipper is open. The free longitudinal edges of the zipper tapes respectively are attached to the fly pieces and the latter are connected with the respective fore parts of the trousers.

The fly piece which is attached to the right hand fore part of the trousers is lined with a fly lining which is located closest to the body of the wearer when the trousers are being worn. The fly lining referred to is subjected to a great deal of moisture from perspiration or other causes, as well as to the effect of chemical substance that may be present at that particular point of the trousers. The zipper tapes become hardened and the metal elements corrode to such an extent that the zipper ceases to function as a fastening device for the trouser fly.

Instead of the customary moisture absorbent fly lining I provide a fly lining that is moisture proof, which lining may be formed of a zelan-treated material or otherwise made water-repellent so that the zipper tape and the metal elements will not be affected by any moisture and the zipper will serve as a fastening device for a long duration of time.

The trousers referred to above are generally made of woolen, rayon, cotton or mixed fabrics not processed for water repellency or moisture resistance.

My invention is applicable to fastening devices other than slide fasteners or zippers, which may be subjected to the effect of moisture, and while I am describing the preferred embodiment of my invention, it is understood that the same is susceptible of modification in various forms without departing from the spirit and scope of my invention. I desire that what I claim be given broad interpretation and be limited only by the prior art pertaining thereto.

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In order to illustrate my invention reference is had to the accompanying sheet of drawings, wherein:

Figure 1 illustrates the upper portion of a pair of trousers turned inside out showing the fly closure comprising two fly members in overlapping relation, the overlapped inner fly member having a moisture repellent outer lining applied thereto;

Figure 2 illustrates the upper portion of the right hand fore part blank of the trousers, face up, comprising one of the zipper tapes placed near the front edge thereof, ready to be attached thereat;

Figure 3 illustrates, face up, the inner fly-flap blank formed of the same material as the trouser material;

Figure 4 illustrates, face up, a blank for the outer lining that is moisture repellent, for the purpose of my invention;

Figure 5 illustrates the completed inner fly member comprising a moisture repellent outer lining; and

Figure 6 is a sectional view on line 6—6 of Figure 1.

In the drawings:

10 represents the upper portion of a pair of trousers turned inside out; 11 represents the inner fly member composed of fly-flap material 12, which is the same material as the trouser material 10, and is covered with a moisture repellent lining 13. This moisture repellent lining is situated closest to the body of the wearer when the trousers are worn. 11*a* designates the outer fly member overlapping the inner fly member 11; 14 represents a portion of a fore part blank, face up, which forms the right hand side of the trousers. One of the zipper tapes 15 is placed near the edge 16 of the fore part blank 14, ready to be attached thereto, as shown in Figure 2. 15A represents one of the zipper tapes attached to the outer fly member 11*a*.

To produce fly member 11, blanks 12 and 13 are placed face to face and stitched together at their respective edges 17 and 18 by a line of stitching extending down and including the lower curved outer edge of each. Blanks 12 and 13 thus united are then turned with the faced side of each out and the inner fly member 11 is thus produced.

The next step is to place the faced side of the fly member 12 upon the faced side of the fore part blank 14, including therebetween the adjacent edge 20 of the zipper tape 15 and securing the respective edges of member 12, blank 14 and tape 15 together by stitching 23 extending to the end of edge 19.

After the various operations have been performed the free edge 21 of lining 13 is folded under towards edges 16, 19 and 20, covering these edges and forming extension 22 which is secured by stitching 24.

I claim:

1. Trousers comprising material subject to the effect of moisture, said trousers having complementary fore parts, a fly closure construction at the front thereof comprising an inner fly portion, an outer fly portion adapted to overlap said inner fly portion, a slide fastener having fastening elements mounted on tapes, one of said tapes secured to the inner side of the outer fly portion, the other of said tapes secured to the outer face of the inner fly portion, a backing member formed of water repellent material attached to the opposite face of said inner fly portion substantially coextending longitudinally with the slide fastener, the outer lateral edge of the backing member being in alignment with the outer edge of the inner fly portion and the inner lateral edge of the backing member extending beyond the juncture of the slide fastener tape and the inner fly portion so as to prevent seepage by capllary action thereat.

2. Trousers comprising material subject to the effect of moisture, said trousers having complementary fore parts, a fly closure construction at the front thereof comprising an inner fly member, an outer fly portion adapted to overlap said inner fly member, a slide fastener having fastening elements mounted on tapes, one of said tapes secured to the inner side of the outer fly portion, the other of said tapes secured to the outer face of the inner fly member at the point of attachment of this inner fly member to the body of the trousers, a backing member formed

of water repellent material attached to the opposite face of said inner fly member substantially coextending longitudinally with the slide fastener, the outer lateral edge of the backing member being in alignment with the outer edge of the inner fly member and the inner lateral edge of the backing member extending substantially beyond the inner edge of the inner fly member so as to prevent seepage by capillary action thereat.

3. Trousers comprising material subject to the effect of moisture, said trousers having complementary fore parts, a fly closure construction at the front part thereof comprising an inner fly member, an outer fly portion adapted to overlap said inner fly member, a slide fastener having fastening elements mounted on tapes, one of said tapes secured to the inner side of the outer fly portion, the other of said tapes secured to the outer face of the inner fly member at the point of attachment of this fly member to the body of the trousers, a backing member formed of water repellent material having a greater surface area than the inner fly member and attached to the opposite face of said inner fly member substantially coextending longitudinally with the slide fastener, the inner lateral edge of the backing member extending beyond the point of attachment of the inner fly member to the body of the trousers and the tape so as to prevent seepage by capillary action at this juncture and as to shield the entire slide fastened area when in closed condition.

SAMUEL F. STEIN.

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