

April 6, 1948.

L. MARKIN

2,438,933

TROUSERS

Filed April 8, 1944

3 Sheets-Sheet 1

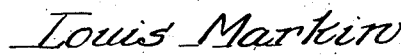


Fig. 1.

Fig. 3.

Тепло

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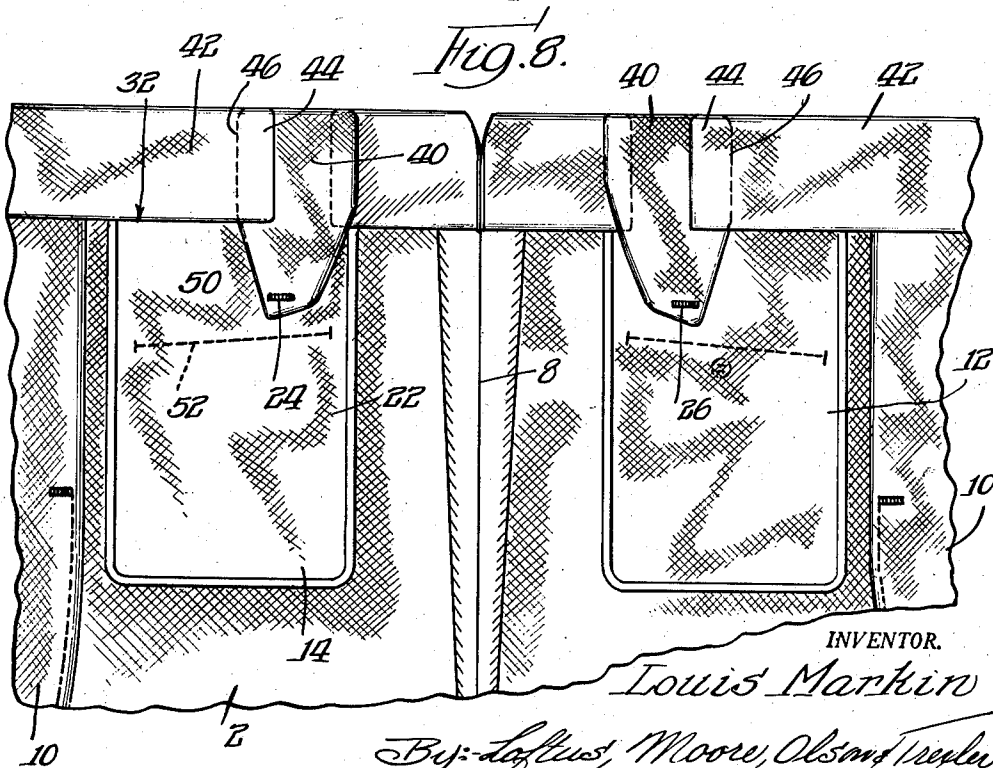
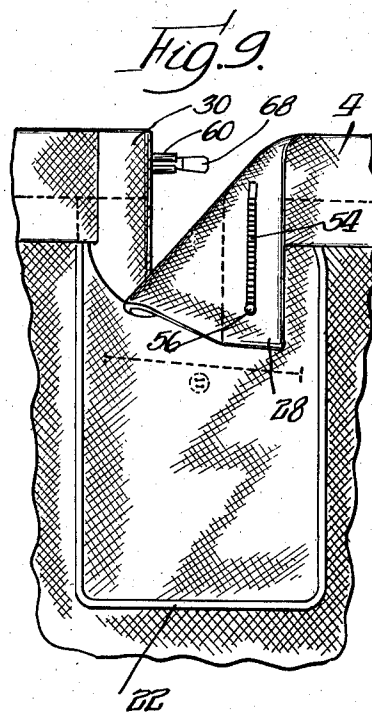
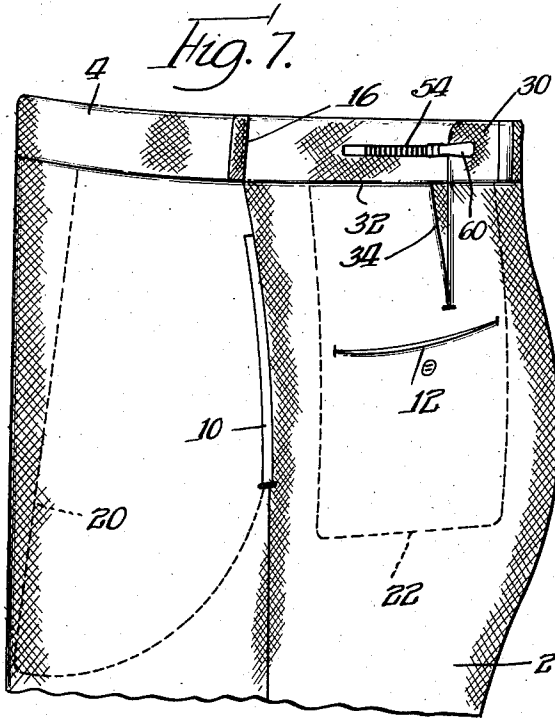
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TROUSERS

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3 Sheets-Sheet 2



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April 6, 1948.

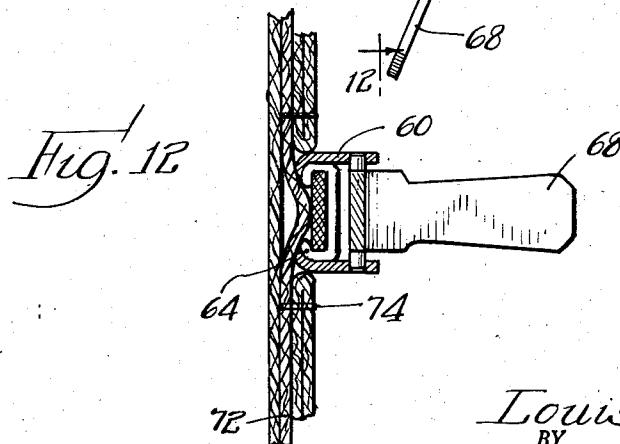
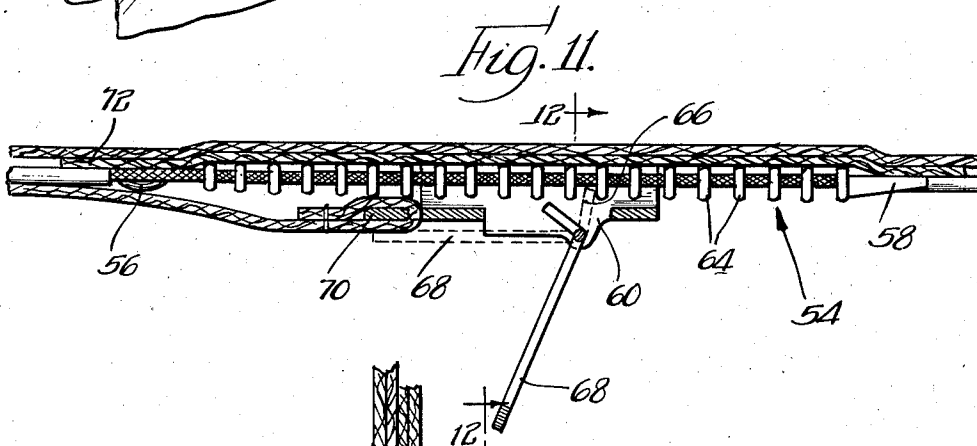
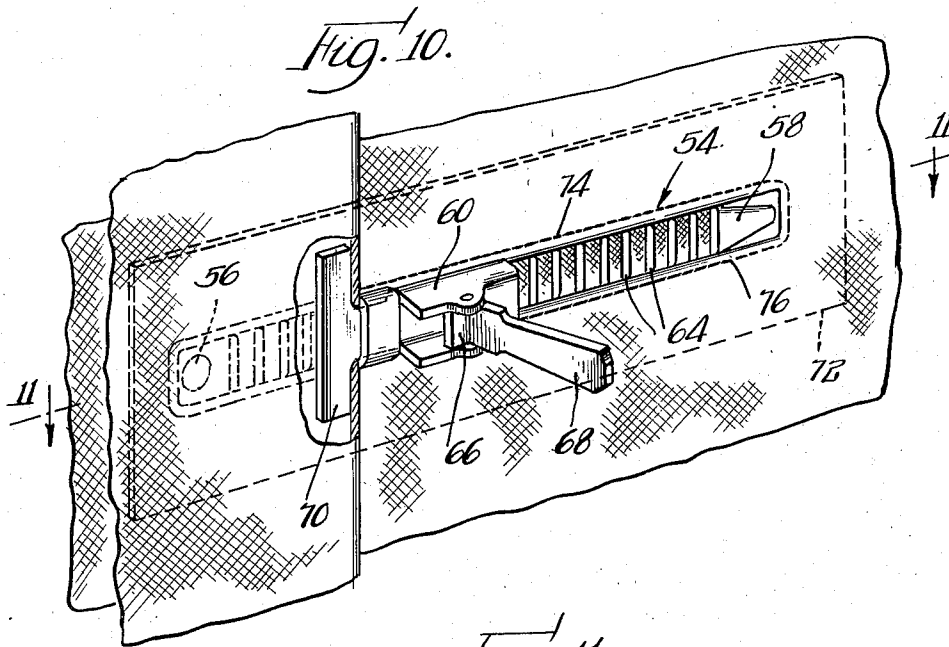
L. MARKIN

2,438,933

TROUSERS

Filed April 8, 1944

3 Sheets-Sheet 3



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UNITED STATES PATENT OFFICE

2,438,933

TROUSERS

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5 Claims. (Cl. 2—235)

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This invention relates to trousers construction, and particularly to means for adjusting the waistband size of trousers to decrease or diminish the waistband rather than by letting out or taking in the rear seam proper.

Among the objects of the invention is to provide a readily adjustable means for adjusting the waistband size of a pair of trousers without altering the rear seam of the trousers while preserving the same appearance and fit of the trousers.

Yet another object of the invention is to provide a simple type of adjusting means disposed immediately above the rear pockets of the trousers at the waistband and including two substantially vertically disposed slits in the fabric of the trousers just above the waistband, together with means for adjustably holding the flaps formed by the slits in adjustable, overlapping relation, whereby to vary the size of the waistband.

Yet another object of the invention resides in providing a readily adjustable waistband for a pair of trousers, rather than by letting out or taking in the rear seam, which comprises forming an opening in the waistband of the trousers on both sides of the rear seam and over the rear pocket section from the top of the waistband down to a point slightly above the rear pocket, whereby to provide overlapping flaps and whereby the bottom of the opening forms a pivotal point about which the flaps may swing to various adjustments of overlapping, and providing each of the flaps with adjustably engaging fastening means adapted to hold the flaps in various positions of overlap, by which means the waistband is instantly adjustable without disturbing the proper hang, fit or appearance of the trousers.

Other and further objects of the invention will be apparent from a perusal of the following specification, when taken in connection with the accompanying drawings, wherein:

Figure 1 is a perspective rear view of a pair of trousers provided with the instant invention;

Figure 2 is an enlarged perspective view of the rear part of the trousers;

Figure 3 is a view taken on the line 3—3 of Figure 2;

Figure 4 is a view showing the trousers let out at the waistband;

Figure 5 is a view showing the fastening devices separated;

Figure 6 is a plan view of Figure 2;

Figure 7 is a side view of the trousers equipped with the invention;

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Figure 8 is an inside view of the rear of the trousers;

Figure 9 is an inside view of the rear of the trousers with the adjusting flap turned down showing the left hand rear pocket;

Figure 10 is an enlarged fragmentary view in perspective showing the detail of the mounting and construction of the fastening means.

Figure 11 is a view partly in section on the line 11—11 in Figure 10; and

Figure 12 is a view partly in section on the line 12—12 in Figure 11.

Referring now to the drawings in detail, the invention comprises any type of trousers 2, having the usual type of waistband 4 having the front seam 6, as usual, and the customary rear seam 8. In addition, the trousers are provided with the usual type of side pockets 10 and rear pockets 12 and 14. The waistband is provided with the usual belt straps 16. The lining of the side pocket is shown in dotted lines in Figure 7 as at 20 and the rear pocket's lining at 22.

The present invention resides in providing a placket or open seam in the waistband of the trousers immediately above the edge of the rear pockets 12 and 14. The bottoms of these two open seams occur at approximately the points 24 and 26, which are slightly above the plane of the mouth of the rear pockets 12 and 14. The placket or open seam is formed so that the sides thereof provide overlying flaps or folds 28 and 30.

Figures 2, 5, 8 and 9 show the inner construction of these flaps or folds. Immediately below the waistband seam 32 there is a seam 34 which extends from slightly above the rear pocket 12 upwardly to the waistband seam 32. The cloth of the trousers extends beyond this substantially vertical seam in a triangular piece, as shown at 36, from the heavy stitching 24 up to the waistband seam 32, the waistband seam being severed along the vertical line 38 whereby to form the underlying flap. This flap is shown at 40 in Figure 8, and a part of the upper inner lining 42 of the waistband 2 overlies part of this flap as at 44, being stitched thereto along the line 46. It will be noted that the heavy stitching 24 forming the bottom of the placket, and about which the placket folds swing, passes through the upper fabric of the rear pocket lining 50 whereby to provide a series of layers of cloth through which the stitching 24 passes, so as to make this pivotal point a very strongly stitched one. The dotted line 52 shows the mouth of the rear pocket. The outer face of this underlying flap 28 is provided with a sewed-in, flexible, longitudinal track 54

of any desired construction and provided with a stop member 56 at one end and with a tapered opposite end 58. This track is preferably of the construction shown in the patents to Statham, Nos. 1,887,825, of November 15, 1932, and Re. 19,356, of October 30, 1934. It provides an elongated flexible track member fortified with a series of spaced apart, transversely disposed, relatively narrow metal bars 64 which form spaced apart stops. The material between the stops permits great flexibility of the track member. The opposite flap 30 is provided with a slider 60 comprising a generally C-shaped piece of metal having curved, spaced apart walls adapted to slide over the tapered end 58 of the track member and to underlie and slide along the opposed side walls of the toothed stops 64 of the track member whereby the slide 60 may slide along the track when once threaded thereon but cannot be removed therefrom except by sliding off the tapered end 58 of the member. In addition, the slide is provided with a pivoted latch 66 like the toe 35 of the Statham Patent 1,887,825, operated by a lever 68, the arrangement being such that when the lever is in a flat position as shown in Figure 2, the toe or inner end of the lever will be swung so that it clamps into a space between two adjacent bars or strips 64 on the elongated flexible track. The construction is preferably of the type shown in the patents to Statham, Nos. 1,887,825, and Re. 19,356, although not necessarily so. It will be understood that the slide is provided with a shank 70 which is sewed to the edge of the overlying flap 30, whereby to provide pivotal positions about the stitchings 24 and 26 to permit various adjustments of the two flaps in various overlying relationships whereby the waistband may be adjusted at two places so that it may be let out or taken in, in accordance with the dimensions of the wearer. The track member 54 is permanently carried upon a flexible, preferably rectangular, elongated tape or fabric 72 which in the preferred form is sewed by a line of stitching 74 to the folded under edges of an opening 76 in the outer ply of the waistband material in which the fastener 54 is mounted. As shown in Figures 10, 11 and 12, the fabric 72 extends between the inner and outer plies of the waistband. The lever 68 has two positions, as indicated by the solid lines and the dotted lines in Figures 10, 11 and 12. When the lever 68 is swung to open position, as illustrated by the solid lines, the latch 66 is out of engagement with the bars 64, leaving the slide 60 free to slide along the track 54. When the lever 68 is in the position indicated by the dotted lines, the latch 66 engages between a pair of the cross bars 64 and prevents the slide from moving longitudinally on the track 54.

It will be apparent that by reason of the location of the pivotal plackets comprising the overlapping, pivotally adjustable flaps, directly above the rear pockets 12 and 14, I provide an adjustment for the waistband which will not interfere either with the hang, fit or appearance of the trousers. The hang or fit of the front portions of the trousers is in no wise affected because the adjustment takes place to the rear of the normally located side pockets 10. Due to the fact that the pivotal stitchings 24 and 26 pass through the lining members of the rear pockets and through the overlying fabric of which the trousers are made, these pivotal points are inherently strong and so reinforced that in the swinging adjustment of the flaps the fit or lay of

the fabric will not be affected except that the waistband will be correspondingly taken in or let out, depending upon the adjustment of the sliders along the flexible tracks. By means of these two adjustments a considerable variation in waistband is provided, whereby a less number of trousers of that particular design and fit can be carried in stock, to correspond with coats and/or vests of similar style and fabric.

Obviously the invention is not limited to the specific details of construction disclosed herein but is capable of other modifications and changes without departing from the spirit and scope of the appended claims.

Having thus described my invention, what is claimed as new and desired to be secured by Letters Patent is:

1. A pair of trousers having the usual rear seam, front opening, side pockets and rear pockets, and having the usual waistband, said trousers being provided with a pair of vertical openings each extending from the top edges of the waistband and severing the waistband, said openings extending downwardly through the cloth attached to but located below the waistband to a point over each rear pocket to provide an opening thereat and forming adjustable flaps adapted to pivot about the base of the opening, said base being reinforced to resist tearing of the fabric at said pivotal point, each of said flap portions carrying cooperative parts of an adjustable fastener, which parts are adapted to shift relatively and substantially transversely of the vertical axis of the opening and to be adjustably fastened in substantially any shifted position within the limits of said fastener whereby adjustably to increase or decrease the size of the waistband of said trousers.

2. A pair of trousers including the usual front opening and rear seam, the usual side pockets and the usual rear pockets, and the usual waistband, the trousers being provided with open plackets each extending from the top edge of the waistband to sever the waistband, said plackets extending downwardly through the cloth of the trousers sewed to the waistband to a point above the top edge of each pocket, the material of the trousers at said opening being extended to provide overlapping placket flaps and the bottom of said opening being reinforced, and means for adjustably maintaining said flaps in variant positions of overlapping engagement of relatively small increments, whereby to provide a waistband adjustment for said trousers, said last named means including a flexible elongated fastening member secured to one of said flaps and extending substantially parallel to the top of the waistband and a cooperative fastening member secured to the overlapping flap and adapted to engage and lock to said first mentioned elongated fastening member and said elongated fastening member being secured in the waistband so as to show only the portion thereof which said cooperative fastening member engages and to which it locks.

3. A pair of trousers including the usual front opening and rear seam, the usual side pockets and the usual rear pockets, and the usual waistband, the cloth of the trousers and the waistband being provided with open plackets each extending from the top edge of the waistband and severing the waistband, said openings extending downwardly to a point above the top edge of each pocket, each placket being formed by cutting through the outer fabric of the trousers and through the lining and rear pocket ply, and pro-

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viding overlapping flaps at said line of cut, said line of cut being stitched at its bottommost portion through the fabric of the upper portion of the trousers pocket ply and through the exterior fabric of the trousers to provide a reinforcement, and means for adjustably swinging said overlapping flaps about the reinforcement point and for maintaining said flaps in various positions of overlapping adjustment at relatively small linear increments, whereby to provide a waistband adjustment for said trousers.

4. A pair of trousers including the usual front opening and rear seam, the usual side pockets and the usual rear pockets, and the usual waistbands, the trousers being provided with open plackets or openings each extending from the top edge of the waistband downwardly to a point above the top edge of each pocket, said plackets severing the waistband, the material of the trousers at said opening being extended to provide overlapping placket flaps and the bottom of said opening being reinforced, one of said flaps being formed with an elongated flexible track extending parallel to the horizontal edge of the waistband, said track comprising parallel, spaced apart, relatively narrow bars forming stops, and the other of said flaps carrying a slide adapted slidably and adjustably to engage and lock in various positions at relatively small linear displacements along the flexible track, said slide including a shiftable cooperative locking member adapted to be positioned between any of a pair of said stops whereby to lock the slide in such position whereby to hold said flaps in various positions of overlying engagement to adjust the waistband of the trousers.

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5. A pair of trousers including the usual front opening, rear seam, side pockets, rear pockets, and waistband, said trousers having openings formed therethrough and each extending from the top of the waistband downwardly to a point immediately over each rear pocket, said openings severing the waistband, the material of the trousers being formed at said opening to provide overlapping, lined flaps, said opening being formed through the upper portion of the fabric of the rear pocket above the opening of the rear pocket and the bottom of the opening being stitched through all the layers of the fabric thereat to reinforce said bottom of the opening, each of said flaps being provided with cooperative parts of an adjustable fastening means adapted adjustably to hold said flaps in various positions of relatively small increments of adjustment pivotally about said point of reinforcement, whereby to increase the waistband measurement of the trousers.

LOUIS MARKIN.

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25 The following references are of record in the file of this patent:

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