

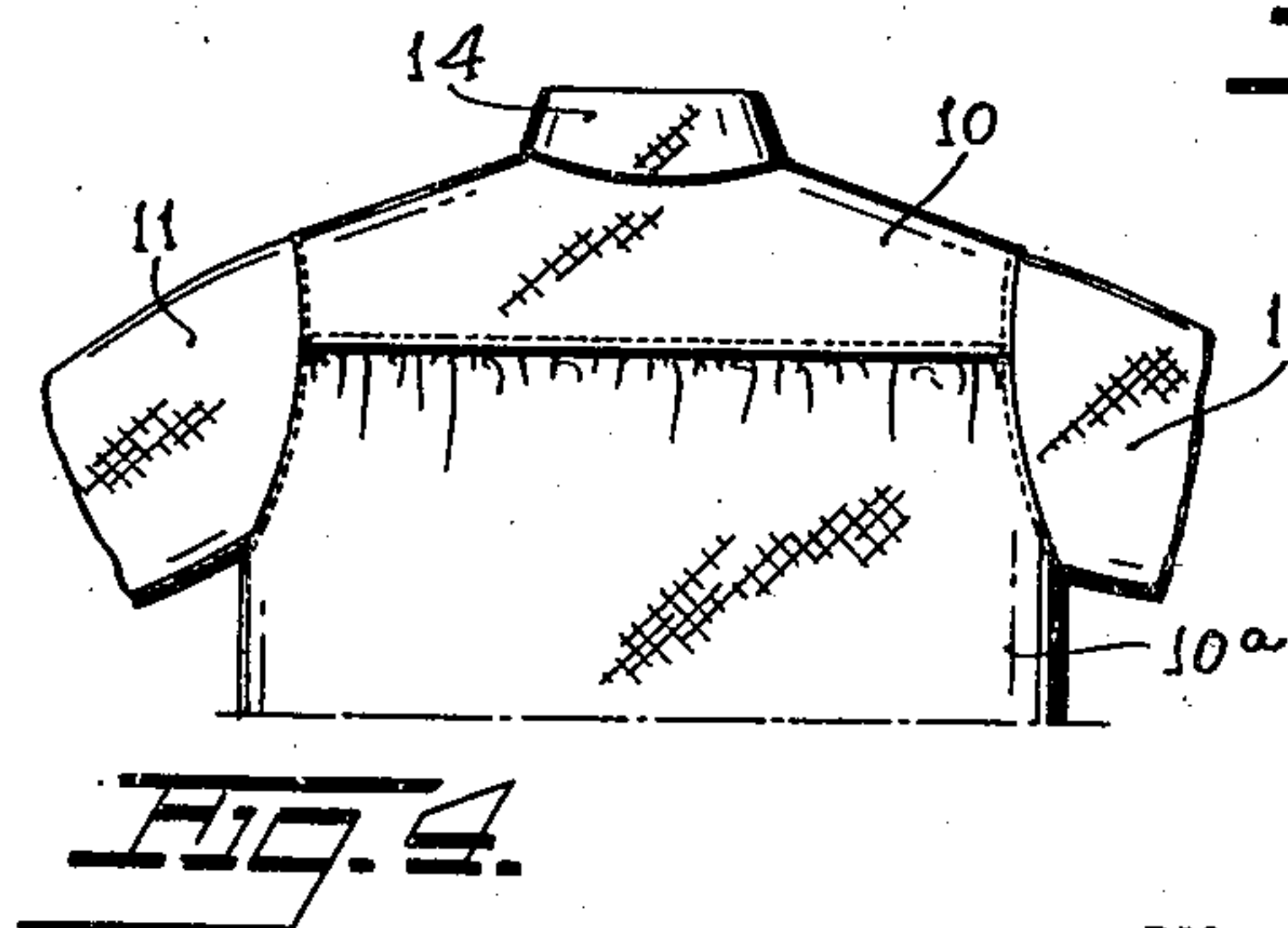
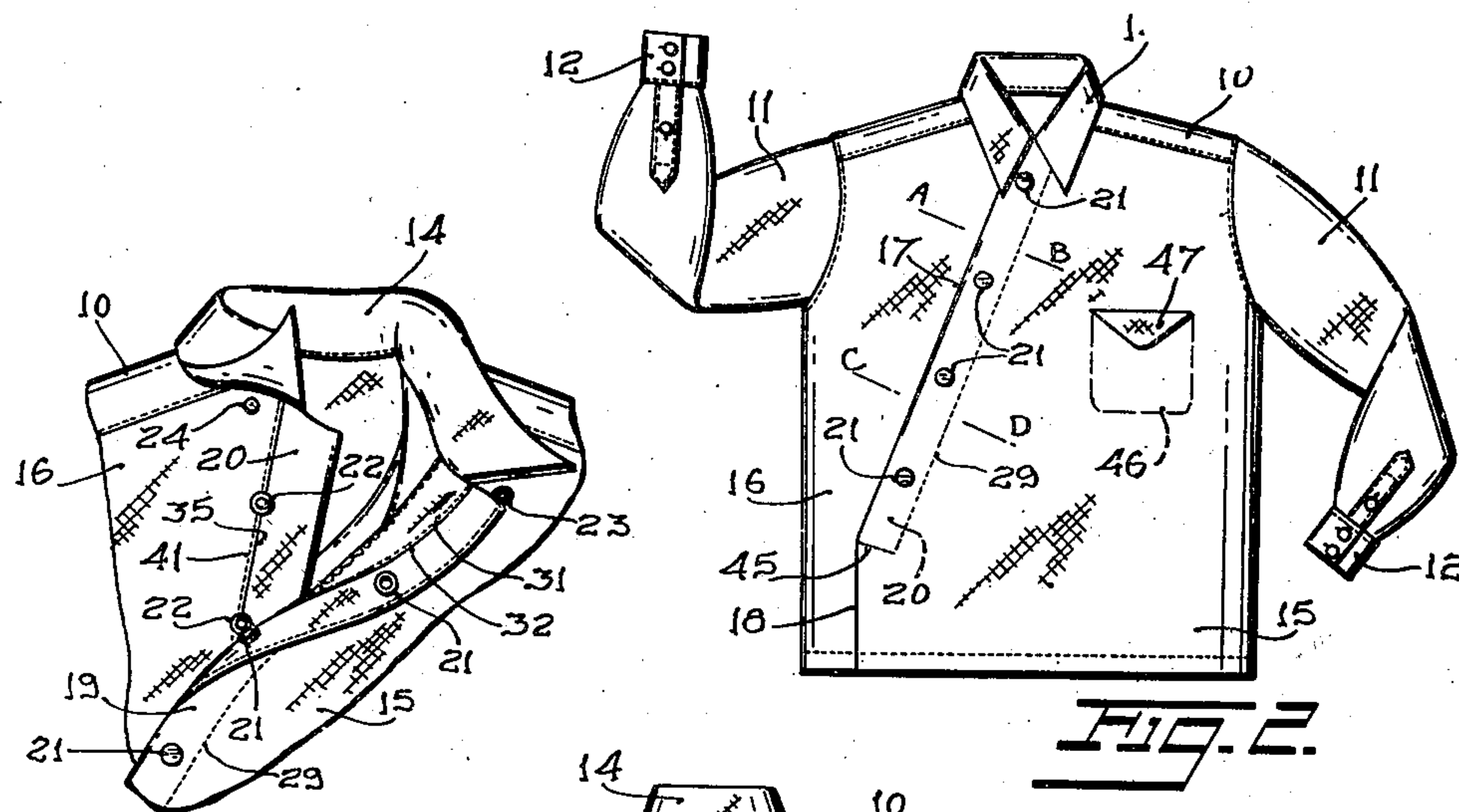
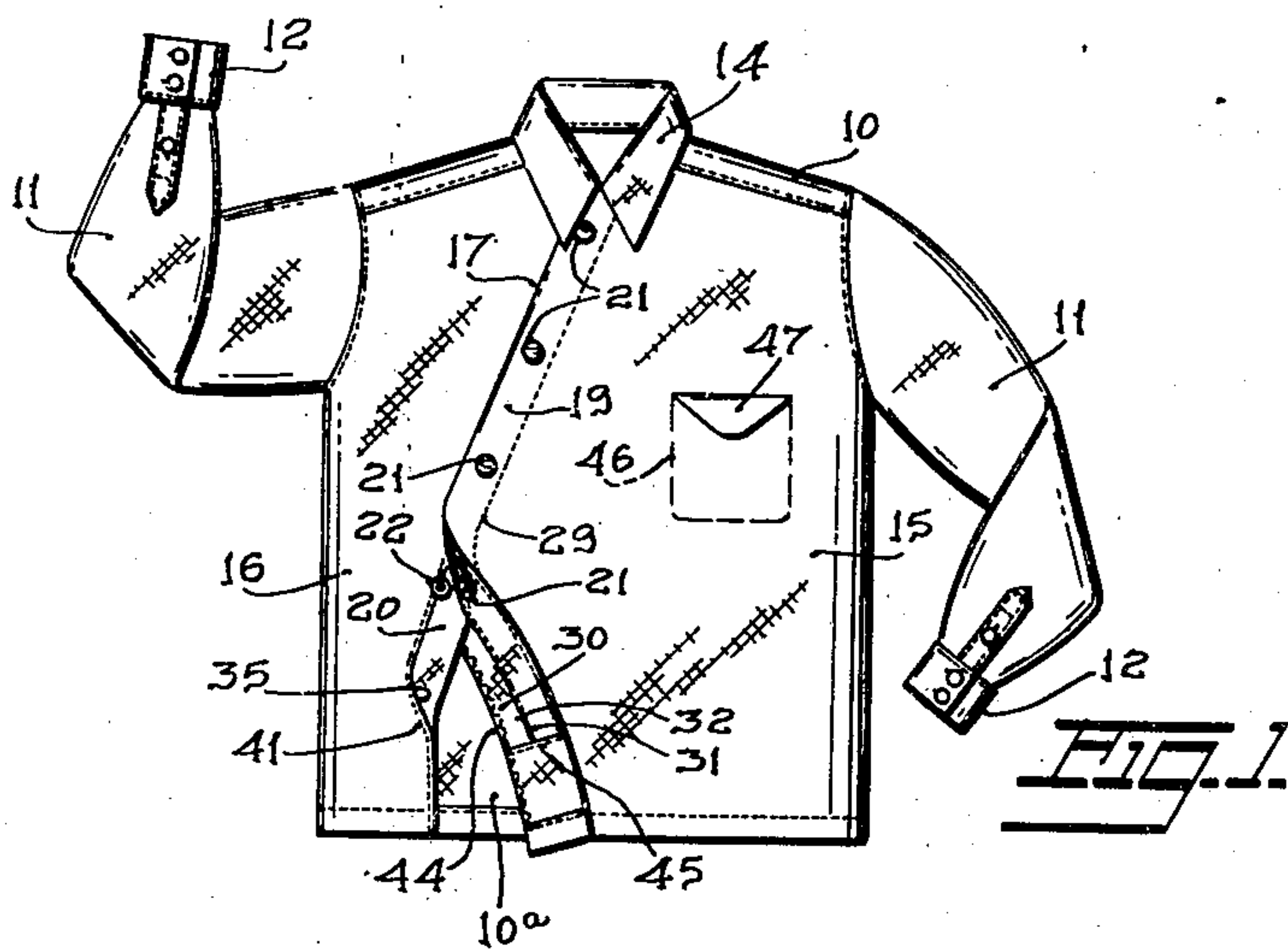
Oct. 25, 1949.

I. E. YATES  
SPORT GARMENT

2,486,236

Filed July 23, 1948

2 Sheets-Sheet 1



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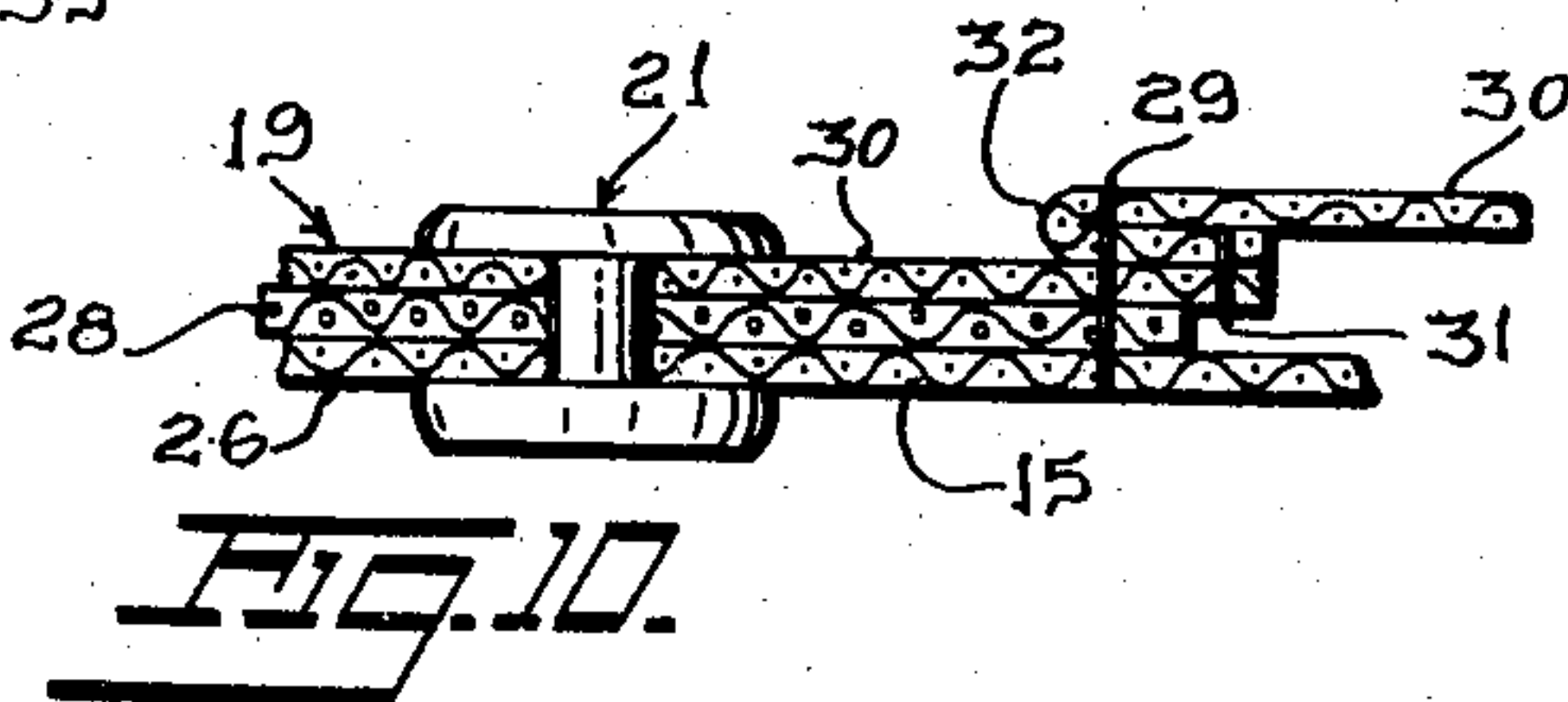
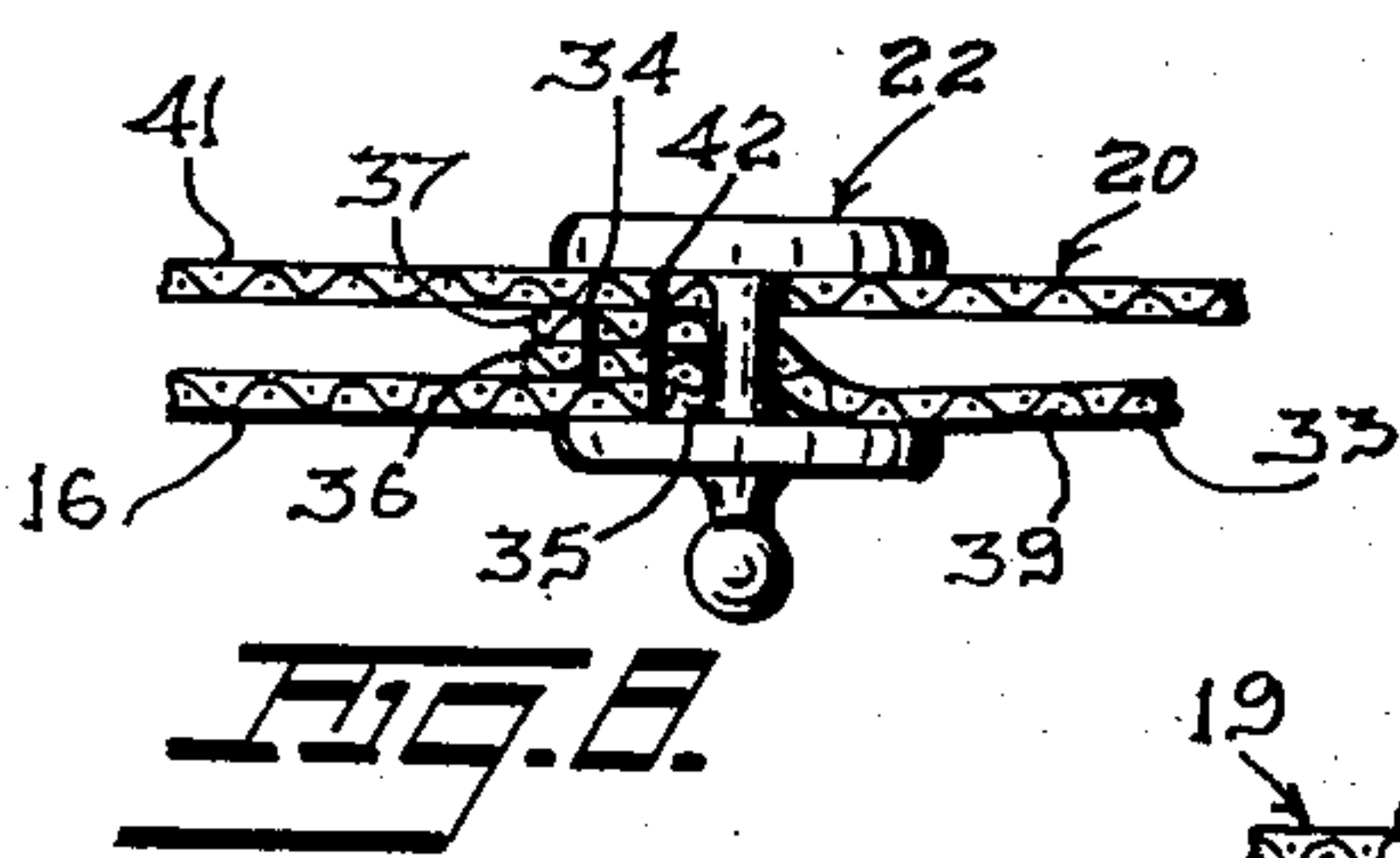
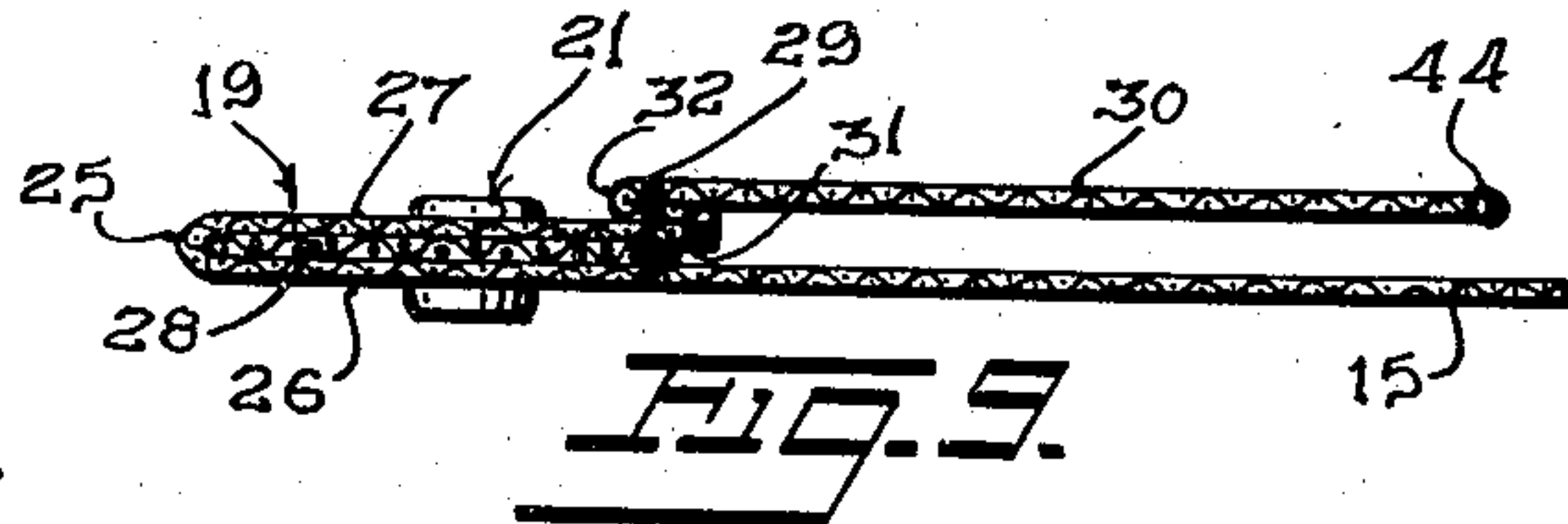
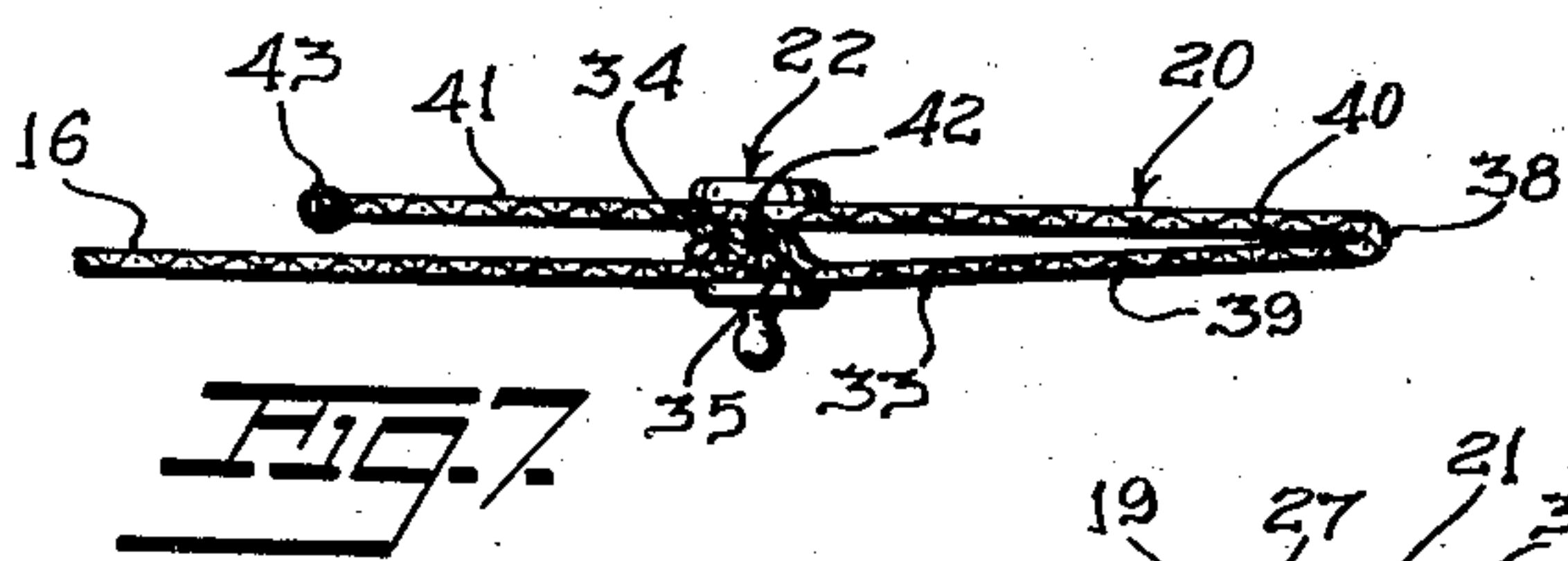
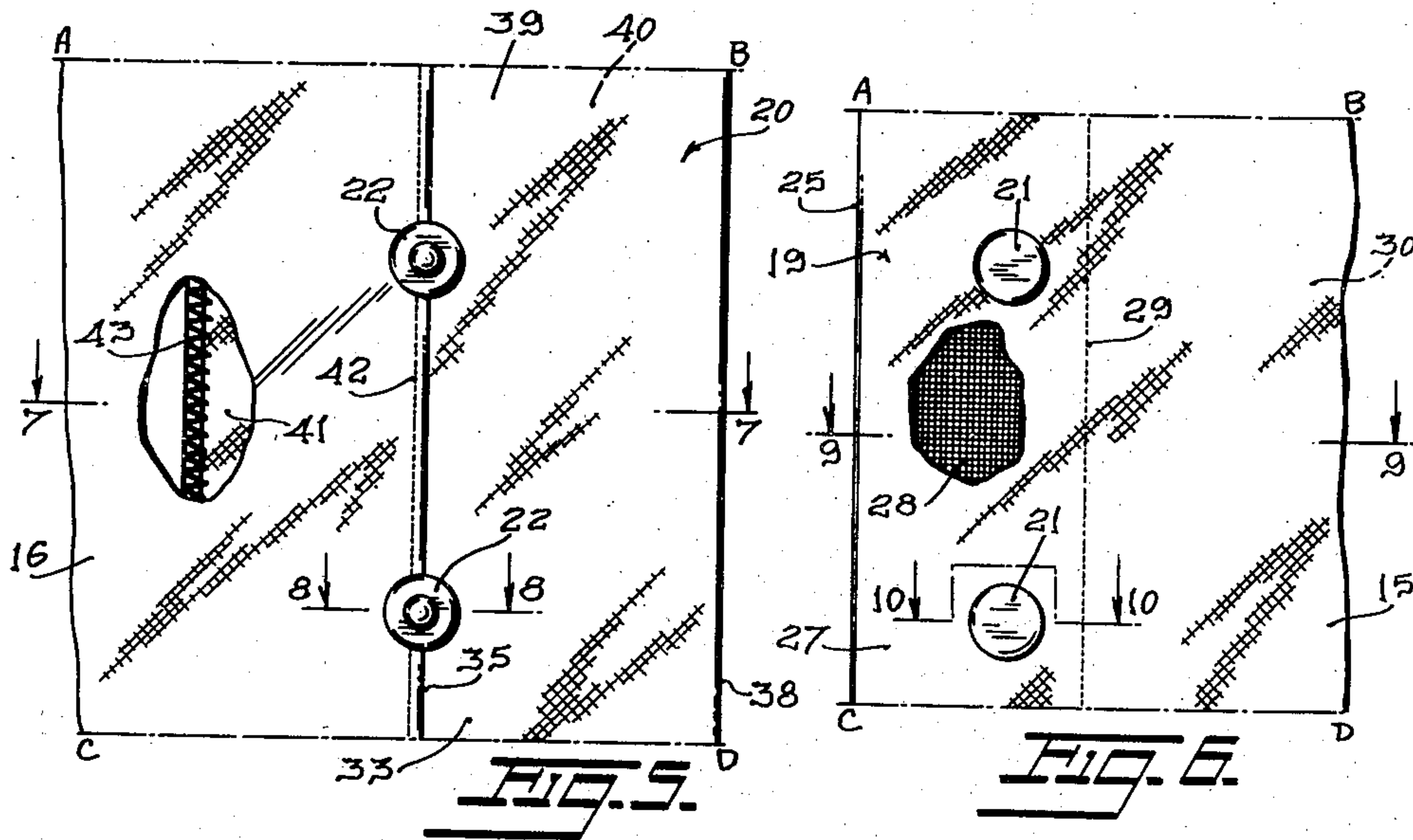
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**I. E. YATES**

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2 Sheets-Sheet 2



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## UNITED STATES PATENT OFFICE

2,486,236

## SPORT GARMENT

Irving E. Yates, Bronx, N. Y.

Application July 23, 1948; Serial No. 40,282

8 Claims. (Cl. 2—128)

1.

This invention relates to new and useful improvements in garments, and, more particularly, aims to provide a novel and valuable garment especially well adapted to be fabricated as a man's sport shirt.

As preferably embodied, the invention provides a shirt-like garment, having a fly front of unique kind. In this connection, the front portion of the garment is made of two sections completely separable along a line obliquely extending from the top of the garment down to near the bottom thereof. Said line is substantially straight, and the garment is cut according to a pattern such that the tops of said two sections are so located as to meet at a point laterally offset from the vertical center line of the garment front, as under one of the two frontally dependent tabs of a turned down attached collar, and the points on said sections marking the bottom of said obliquely extending line are so located as to meet at a portion of the garment somewhat above the bottom thereof and further offset from said vertical center line than the offsetting of the top of said obliquely extending line from said vertical line.

Stressing now a particular object of the present invention, that is, for closing said sections along said obliquely extending line in a most convenient yet ideally effective way, snap fasteners, or equivalents (that is, buttons and buttonholes or the like), are employed along said line, these spaced one below another at suitable intervals, and there is not only provided, as one feature of the invention, a novel and valuable placement of said spaced fastening instrumentalities, but in this connection there are also provided panels of special constructions respectively carried by the two front sections of the garment, these panels for giving a good drape to the front of the garment, while at the same time serving to carry the spaced fastening instrumentalities with the latter attached to the panels in such relation to their details of construction that the anchorages of said instrumentalities are exceptionally fortified thereby to insure that the life of the garment will be correspondingly prolonged.

Preferably, the uppermost of the spaced fastening means, this at the top of the garment, consists of a flexible loop projected upwardly from the upper end of one panel, this panel desirably the overlapping one, and a button is located on the panel other than the loop carrying one, matchingly relative to the location of said loop on its carrying panel, whereby, with the garment having a turn down collar, said loop and button will be hidden under one of the front depending collar

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tabs, thus to adapt said loop and button, when interengaged, for coaction with the fastening instrumentalities first mentioned, in assisting to hold the panels to lie one lapped over the other without wrinklages and in absolute smoothness from tops to bottoms thereof. As in the case of the fastening instrumentalities first mentioned, an equivalent means for the loop and button may be used in substitution thereof, as, for instance, a metal or plastic hook and eye couple.

For further comprehension of the invention, and of the objects and advantages thereof, reference will be had to the following description and accompanying drawings, and to the appended claims in which the various novel features of the invention are more particularly set forth.

In the accompanying drawings forming a material part of this disclosure:

Fig. 1 shows in front elevation an embodiment of the invention, as now favored, with the aforesaid garment sections partially open near the bottom of the garment.

Fig. 2 is a view similar to Fig. 1, but with said front sections fully closed.

Fig. 3 is a fragmentary perspective view, showing the upper part of the garment, with said front sections partially open near the top of the garment.

Fig. 4 is a fragmentary rear elevation.

Fig. 5 is an enlarged detail view, this showing in front elevation, partially broken away, the front section of the garment which is at the left in Fig. 1, but only about as much thereof, in accordance with the showing of the dot and dash lines A—B and C—D of Fig. 5, as in Fig. 2, lies below the dot and dash line A—B and above the dot and dash line C—D there shown.

Fig. 6 is a similar view, but showing the front section of the garment which is at the right in Fig. 1.

Fig. 7 is a section taken on the line 7—7 of Fig. 5, but here, to simplify the drawing, the fabric sections are shown, as to their cross-sectional aspects, merely diagrammatically.

Fig. 8 is a very much enlarged detail view, being a section taken on the line 8—8 of Fig. 5, for clarifying the showing of Fig. 7, and further for showing the manner in which a male-type snap fastener element is engaged with that one of the aforesaid panels which carries the male-type fastener elements, and in this view, for further clarifying the disclosure, fabric thicknesses are very much exaggerated.

Fig. 9 is a view corresponding to Fig. 7, but taken on the line 9—9 of Fig. 6.



Fig. 10 is a view corresponding to Fig. 8, but taken on the line 10—10 of Fig. 6.

Referring to the drawings more in detail, the garment shown, by way of example, includes a rear upper section 10, a rear lower section 10<sup>a</sup>, a pair of sleeves 11—11, each with an openable cuff 12, and a turned down collar 14, and is completed by a larger front section 15 and a smaller and complementary front section 16.

The garment is cut according to a pattern such that the front thereof is openable and closable along a main straight obliquely inclined line 17 and along a minor, lower straight vertical line 18. Said line 17 at its top is to one side of the front vertical center line of the garment.

The garment, it should be noted, is wholly openable at its front, that is, all the way from the top to the bottom thereof.

The aforesaid panels are marked 19 and 20, these respectively carried by the front garment sections 15 and 16.

The panel 19 is here shown as the one along which are spaced a suitable plurality of female or socket-type snap fastener elements 21; while the panel 20 is here shown as the one along which are matchingly spaced the corresponding plurality of male or post-type snap fastener elements 22. Also as here shown, it is the panels 19 and 20 which respectively carry the aforesaid loop 23 and the cooperant button 24.

Referring to the feature of the invention whereby the socket-type snap fastener elements 21 are attached in special relation to structural details of the panel 19, said panel is constituted by a marginal portion of the front garment section 15 folded on itself, as at 25, to provide the two outermost plies 26 and 27 of the three plies in the make up of said panel 19. The third ply of the panel 19 is provided by a strip 28 of buckram or other similar reinforcing and stiffening material.

Said buckram strip 28 is held in place by a line of stitching 29; but preparatory to applying said stitching 29, an auxiliary strip 30, desirably of the same material as that of the section 15, is connected by a line of stitching 31 to the strip 28, and this strip 30 is then folded on itself, as indicated at 32, to provide on itself a lapped edge as shown in Figs. 9 and 10.

After this, the buckram strip 28 is inserted, and the said stitching 29 is applied; this passing through five plies of material.

It is now that the snap fastener elements 21 are attached, with the shank portions of these passing through three plies of material, of which the central one is the buckram strip 28; while all that is seen at the front of the garment, as a structural detail of the panel, is the single line of stitching 29.

Referring to the feature of the invention whereby the post-type snap fastener elements are attached in special relation to the structural details of the panel 20 (see particularly Figs. 7 and 8), said panel is provided by an extra strip of material, this marked 33 and desirably of the same material as that of the section 16.

The section 16 is stitched, as at 34, to the extra strip 33; then said strip is folded on itself, as at 35, to provide inwardly of the section 16, and marginally thereof, three plies of material of which the outermost one is constituted by the section 16, this last backed by the plies 36 and 37.

Then the strip 33 is folded on itself, as at 38, to provide an outer ply 39 and an inner ply 40 for the make up of the panel 20; with the piece

of material constituting said inner ply being laterally extended well past the stitching 34 to establish a single-ply flap 41.

Then a line of stitching 42 is applied, this sent through the two plies 36 and 37 and the sandwiching plies for the latter constituted by the section 16 and the flap 41. In other words, said stitching 42, as clearly shown in Fig. 8, goes through four plies of material.

It is now that the snap fastener elements 22 are attached. It is to be noted, particularly from Fig. 8, that the shank portion of each said element 22, piercing only two plies of material, has its center line substantially in the general line of extension of the fold 35; so that each such element 22, after its complementary parts have been clenched together, is anchored not only by way of the two plies 39 and 40—41 pierced by its shank portion, but also by powerful compression of and tight grip on, the two plies last-mentioned and the two plies established by the section 16 and its infolded edge portion 35.

These last-mentioned two plies, compressed and gripped between the two disk-like ends of a fastener element 22, are thus compressed and gripped only at one side of the shank of said element 22; but so tight is such grip obtained that it is permanently retained. Moreover, even on close inspection there is no indication that there is actually (note Fig. 8) a four-ply thickness of material at one side of the shank of an element 22 and merely a two-ply thickness of material at the opposite side of such shank.

What is very important, the section 16 is not pierced at all by said shank; but, instead, its material adjacent the fold line 35 is merely locally slightly bunched away from the general line of extension of said fold at the location of said shank.

Further, although the fold line 35 as well as the line of stitching 41 are structural details of the panel 20 which are displayed at the front of the garment, these are hidden while the garment is being worn, by overlap of the panel 19 relative to the panel 20.

The free edge of the flap 41 is shown as having applied thereto a line of overcast edge-finish stitching 43; and the free edge of the strip 30 is shown as similarly finished, as at 44.

Note that the buckram strip 28, while it extends to the very top of the panel 19, whereby the root ends of the loop 23 (Fig. 3) may be stitched also to said strip, extends only far enough down along said panel as to have the bottom of said strip engaged by a line of stitching 45 (Figs. 1 and 2). Thereby the length of the panel 19 coextensive with the main obliquely extended line 17 is stiffened by said strip 28, but said panel, all along its length coextensive with the minor vertically extending line 18, is relatively limply flexible.

With the panel 19 preferably narrower than the panel 20, as shown, the strip 30 is preferably wider than the flap 41; this further to assist in giving a good drape to the front of the garment, so far as is concerned its appearance to the onlooker, and also so far as is concerned the comfort of the wearer.

The relationship of and coaction between the various sheet members of the plural-ply structures at and adjacent to the panels 19 and 20, as above described, when the spaced fastening means provided are closed, are such, it has been found, as will attain, while the garment is being worn, at once all the objectives of providing a blouse-like appearance at the front of the gar-



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ment, of preventing any wrinkling of the panels 19 and 20, of securing an ideal frontal drape of the garment, and of dependably securing the fastening elements.

The new garment may include a pocket or pockets; for instance, such a breast pocket as that indicated at 46, which is shown as provided with a top closing flap 47.

While I have illustrated and described the preferred embodiment of my invention, it is to be understood that I do not limit myself to the precise construction herein disclosed and the right is reserved to all changes and modifications coming within the scope of the invention as defined in the appended claims.

In said claims, whenever the shank of a snap fastener element is referred to, there is also meant any equivalent of such shank when the spaced fastening instrumentalities, as buttons and button-holes, are substitutes for snap fasteners; that is, in the case of such a button, there would be meant the stitching or the like for attaching a button to a panel, and in the case of such a button-hole, there would be meant the slit necessarily provided through a panel to establish the such button-hole.

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

1. An open-front shirt-like garment, comprising a front portion which includes two sections separable along a line extending diagonally from a point offset from the vertical center line of the front of the garment down to a point above the bottom of the garment, both of said sections below the bottom of such diagonal line having substantially vertically extending edges both shorter than said line, each of said sections including a panel extending down along said section, said panels carried by said sections so that when the latter are arranged to close the front of the garment one panel is in overlapping relation to the other panel, and fastening means for said sections incorporating fastener elements carried by and spaced along one panel and complementary fastener elements carried by and spaced along the other panel, one of said panels having an inner and an outer ply with said outer ply integral with the fabric of its carrying section, said section being folded on itself to provide said two plies, there being an auxiliary strip edge seamed to said inner ply, and an extra strip of stiffening material interposed between said inner and outer plies, said auxiliary strip being folded on itself to provide two plies thereof lying inwardly of said extra stiffening strip, and there being a line of stitching through the five plies including said section, said extra stiffening strip and the two plies last-mentioned, whereby the only structural detail of the last-named panel displayed at the front of the garment is said line of stitching.

2. An open-front shirt-like garment, comprising a front portion which includes two sections separable along a line extending diagonally from a point offset from the vertical center line of the front of the garment down to a point above the bottom of the garment, both of said sections below the bottom of such diagonal line having substantially vertically extending edges both shorter than said line, each of said sections including a panel extending down along said section, said panels carried by said sections so that when the latter are arranged to close the front of the gar-

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ment one panel is in overlapping relation to the other panel, and fastening means for said sections incorporating fastener elements carried by and spaced along one panel and complementary fastener elements carried by and spaced along the other panel, one of said panels having an inner and an outer ply with said outer ply integral with the fabric of its carrying section, said section being folded on itself to provide said two plies, there being an auxiliary strip edge seamed to said inner ply, and an extra strip of stiffening material interposed between said inner and outer plies, said auxiliary strip being folded on itself to provide two plies thereof lying inwardly of said extra stiffening strip, and there being a line of stitching through the five plies including said section, said extra stiffening strip and the two plies last-mentioned, whereby the only structural detail of the last-named panel displayed at the front of the garment is said line of stitching, said fastening elements carried by the last-named panel being placed so as to pierce said extra stiffening strip as well as said inner and outer plies of said panel.

3. An open-front shirt-like garment, comprising a front portion which includes two sections separable along a line extending diagonally from a point offset from the vertical center line of the front of the garment down to a point above the bottom of the garment, both of said sections below the bottom of such diagonal line having substantially vertically extending edges both shorter than said line, each of said sections including a panel extending down along said section, said panels carried by said sections so that when the latter are arranged to close the front of the garment one panel is in overlapping relation to the other panel, and fastening means for said sections incorporating fastener elements carried by and spaced along one panel and complementary fastener elements carried by and spaced along the other panel, one of said panels having an inner and an outer ply with said outer ply integral with the fabric of its carrying section, said section being folded on itself to provide said two plies, there being an auxiliary strip edge seamed to said inner ply, and an extra strip of stiffening material interposed between said inner and outer plies, said auxiliary strip being folded on itself to provide two plies thereof lying inwardly of said extra stiffening strip, and there being a line of stitching through the five plies including said section, said extra stiffening strip and the two plies last-mentioned, whereby the only structural detail of the last-named panel displayed at the front of the garment is said line of stitching, said fastening elements carried by the last-named panel being placed so as to pierce said extra stiffening strip as well as said inner and outer plies of said panel, said extra stiffening strip extending from the top of the last-named panel down only to about the bottom of said diagonal line.

4. An open-front shirt-like garment, comprising a front portion which includes two sections separable along a line extending diagonally from a point offset from the vertical center line of the front of the garment down to a point above the bottom of the garment, both of said sections below the bottom of such diagonal line having substantially vertically extending edges both shorter than said line, each of said sections including a panel extending down along said section, said panels carried by said sections so that when the latter are arranged to close the front of the



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garment one panel is in overlapping relation to the other panel, and fastening means for said sections incorporating fastener elements carried by and spaced along one panel and complementary fastener elements carried and spaced along the other panel, one of said panels having an inner and an outer ply with said outer ply integral with the fabric of its carrying section, said section being folded on itself to provide said two plies, there being an auxiliary strip edge seamed to said inner ply, and an extra strip of stiffening material interposed between said inner and outer plies, said auxiliary strip being folded on itself to provide two plies thereof lying inwardly of said extra stiffening strip, and there being a line of stitching through the five plies including said section, said extra stiffening strip and the two plies last-mentioned, whereby the only structural detail of the last-named panel displayed at the front of the garment is said line of stitching, said fastening elements carried by the last-named panel being placed so as to pierce said extra stiffening strip as well as said inner and outer plies of said panel, there being auxiliary fastening means partially carried by each panel near the top thereof, said means comprising a male member on one panel and a female member on the other.

5. An open-front shirt-like garment, comprising a front portion which includes two sections separable along a line extending diagonally from a point offset from the vertical center line of the front of the garment down to a point above the bottom of the garment, both of said sections below the bottom of such diagonal line having substantially vertically extending edges both shorter than said line, each of said sections including a panel extending down along said section, said panels carried by said sections so that when the latter are arranged to close the front of the garment one panel is in overlapping relation to the other panel, and fastening means for said sections incorporating fastener elements carried by and spaced along one panel and complementary fastener elements carried by and spaced along the other panel, one of said panels having an inner and an outer ply with said outer ply integral with the fabric of its carrying section, said section being folded on itself to provide said two plies, there being an auxiliary strip edge seamed to said inner ply, and an extra strip of stiffening material interposed between said inner and outer plies, said auxiliary strip being folded on itself to provide two plies thereof lying inwardly of said extra stiffening strip, and there being a line of stitching through the five plies including said section, said extra stiffening strip and the two plies last-mentioned, whereby the only structural detail of the last-named panel displayed at the front of the garment is said line of stitching, said fastening elements carried by the last-named panel being placed so as to pierce said extra stiffening strip as well as said inner and outer plies of said panel, there being auxiliary fastening means partially carried by each panel near the top thereof, said means comprising a male member on one panel and a female member on the other, said male member being a button and said female member being an eye-like loop.

6. An open-front shirt-like garment, comprising a front portion which includes two sections separable along a line extending diagonally from a point offset from the vertical center line of the front of the garment down to a point above the

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bottom of the garment, both of said sections below the bottom of such diagonal line having substantially vertically extending edges both shorter than said line, each of said sections including a panel extending down along said section, said panels carried by said sections so that when the latter are arranged to close the front of the garment one panel is in overlapping relation to the other panel, and fastening means for said sections incorporating fastener elements carried by and spaced along one panel and complementary fastener elements carried by and spaced along the other panel, one of said panels having an inner and an outer ply with said outer ply integral with the fabric of its carrying section, said section being folded on itself to provide said two plies, the other panel including a supplementary strip edge seamed to the section for carrying that panel, such seaming including a line of stitching applied through said supplementary strip and also through two plies of the last-named section established by folding the latter inwardly on itself, said supplementary strip being folded inwardly on itself to provide an inner ply and an outer ply for the last-named panel, and the last-mentioned two plies and the two plies of the supplementary strip established by the second-mentioned fold being secured together by a line of stitching through all four such plies, whereby the only structural details of the last-named panel displayed at the front of the garment are the said second-mentioned fold and the last-mentioned line of stitching.

7. An open-front shirt-like garment, comprising a front portion which includes two sections separable along a line extending diagonally from a point offset from the vertical center line of the front of the garment down to a point above the bottom of the garment, both of said sections below the bottom of such diagonal line having substantially vertically extending edges both shorter than said line, each of said sections including a panel extending down along said section, said panels carried by said sections so that when the latter are arranged to close the front of the garment one panel is in overlapping relation to the other panel, and fastening means for said sections incorporating fastener elements carried by and spaced along one panel and complementary fastener elements carried by and spaced along the other panel, one of said panels having an inner and an outer ply with said outer ply integral with the fabric of its carrying section, said section being folded on itself to provide said two plies, the other panel including a supplementary strip edge seamed to the section for carrying that panel, such seaming including a line of stitching applied through said supplementary strip and also through two plies of the last-named section established by folding the latter inwardly on itself, said supplementary strip being folded inwardly on itself to provide an inner ply and an outer ply for the last-named panel, and the last-mentioned two plies and the two plies of the supplementary strip established by the second-mentioned fold being secured together by a line of stitching through all four such plies, whereby the only structural details of the last-named panel displayed at the front of the garment are the said second-mentioned fold and the last-mentioned line of stitching, the fastening elements respectively carried by the two panels being such that when said elements of one panel are coupled to the complementary elements of the other panel,



the second-named panel underlies the first-named panel.

8. An open-front shirt-like garment, comprising a front portion which includes two sections separable along a line extending diagonally from a point offset from the vertical center line of the front of the garment down to a point above the bottom of the garment, both of said sections below the bottom of such diagonal line having substantially vertically extending edges both shorter than said line, each of said sections including a panel extending down along said section, said panels carried by said sections so that when the latter are arranged to close the front of the garment one panel is in overlapping relation to the other panel, and fastening means for said sections incorporating fastener elements carried by and spaced along one panel and complementary fastener elements carried by and spaced along the other panel, one of said panels having an inner and an outer ply with said outer ply integral with the fabric of its carrying section, said section being folded on itself to provide said two plies, the other panel including a supplementary strip edge seamed to the section for carrying that panel, such seaming including a line of stitching applied through said supplementary strip and also through two plies of the last-named section established by folding the latter inwardly on itself, said supplementary strip being folded inwardly on itself to provide an inner ply and an

outer ply for the last-named panel, and the last-mentioned two plies and the two plies of the supplementary strip established by the second-mentioned fold being secured together by a line of stitching through all four such plies, whereby the only structural details of the last-named panel displayed at the front of the garment are the said second-mentioned fold and the last-mentioned line of stitching, the fastening elements respectively carried by the two panels being such that when said elements of one panel are coupled to the complementary elements of the other panel, the second-named panel underlies the first-named panel, said fastening elements carried by the second-named panel piercing only the said outer and inner plies of said panel but thus piercing said plies so closely adjacent said first-mentioned fold that the center lines of said fastening elements all substantially intersect the first-mentioned fold but without piercing anywhere any part of the section carrying said panel.

IRVING E. YATES.

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