

March 3, 1953

B. LIEBOWITZ
TWO-WAY SHIRT COLLAR

2,629,872

Filed July 25, 1950

2 SHEETS—SHEET 1

FIG. 3

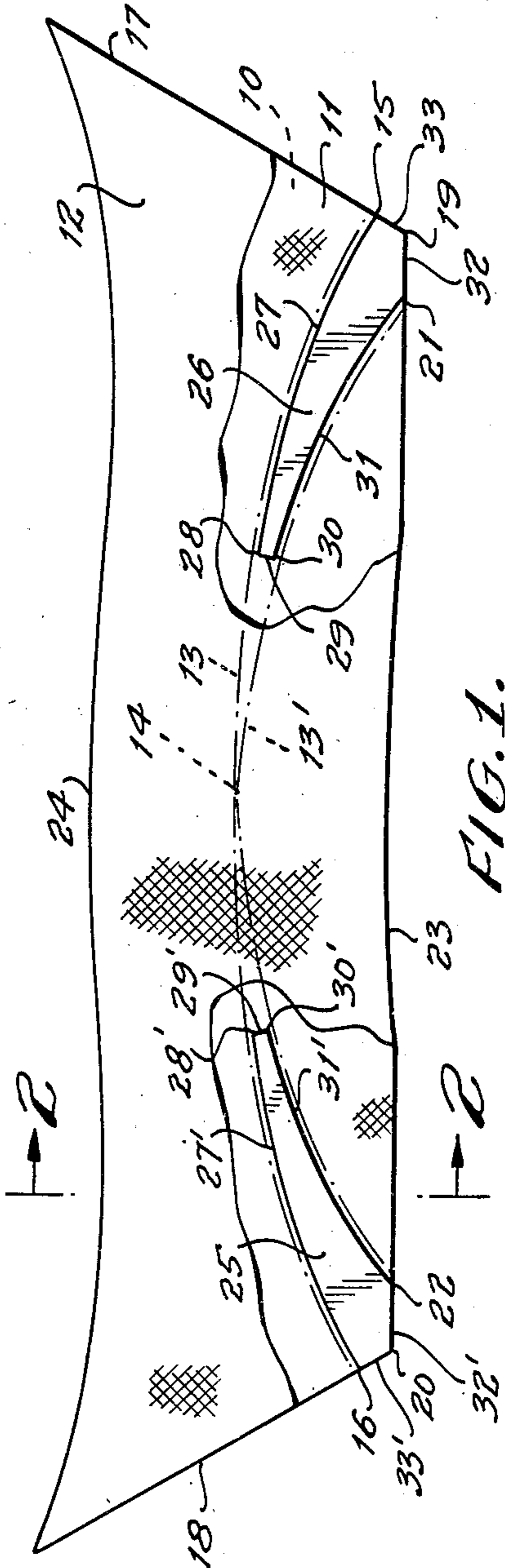
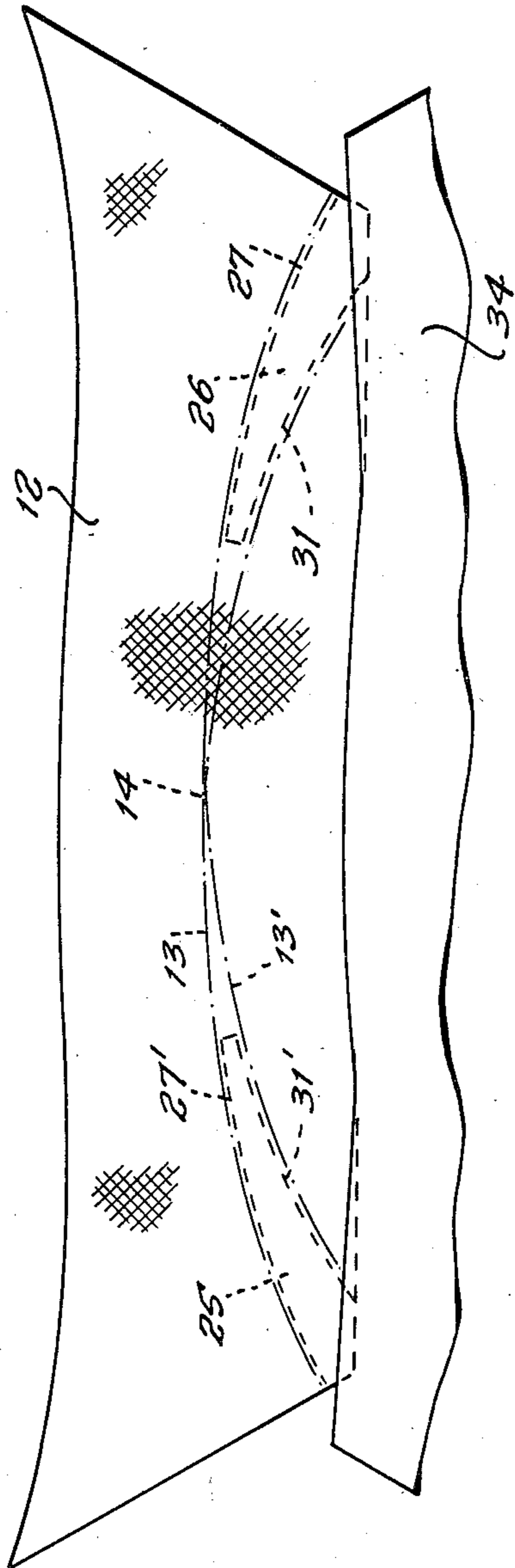


FIG. 1.

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2 SHEETS—SHEET 2

FIG. 4.

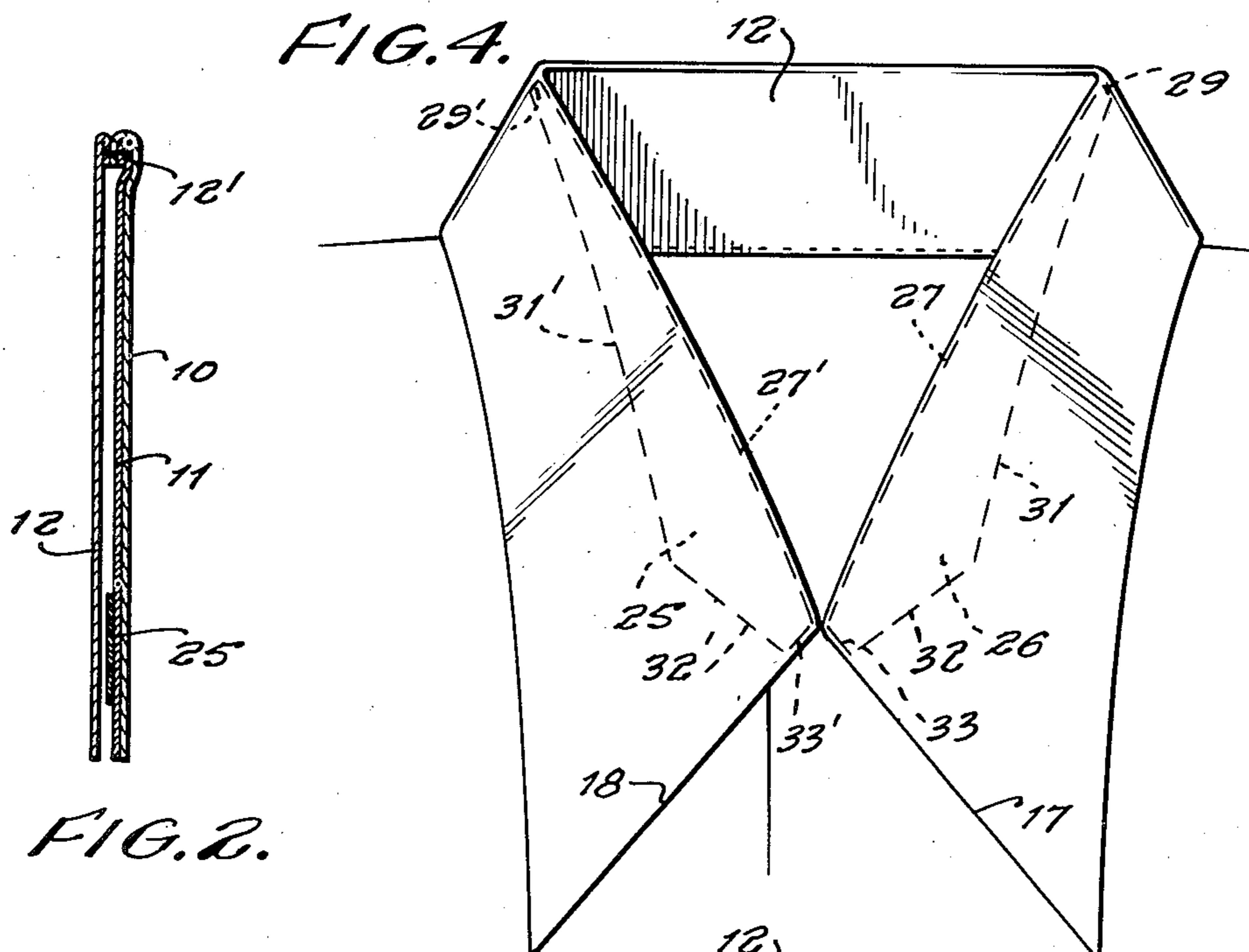


FIG. 2.

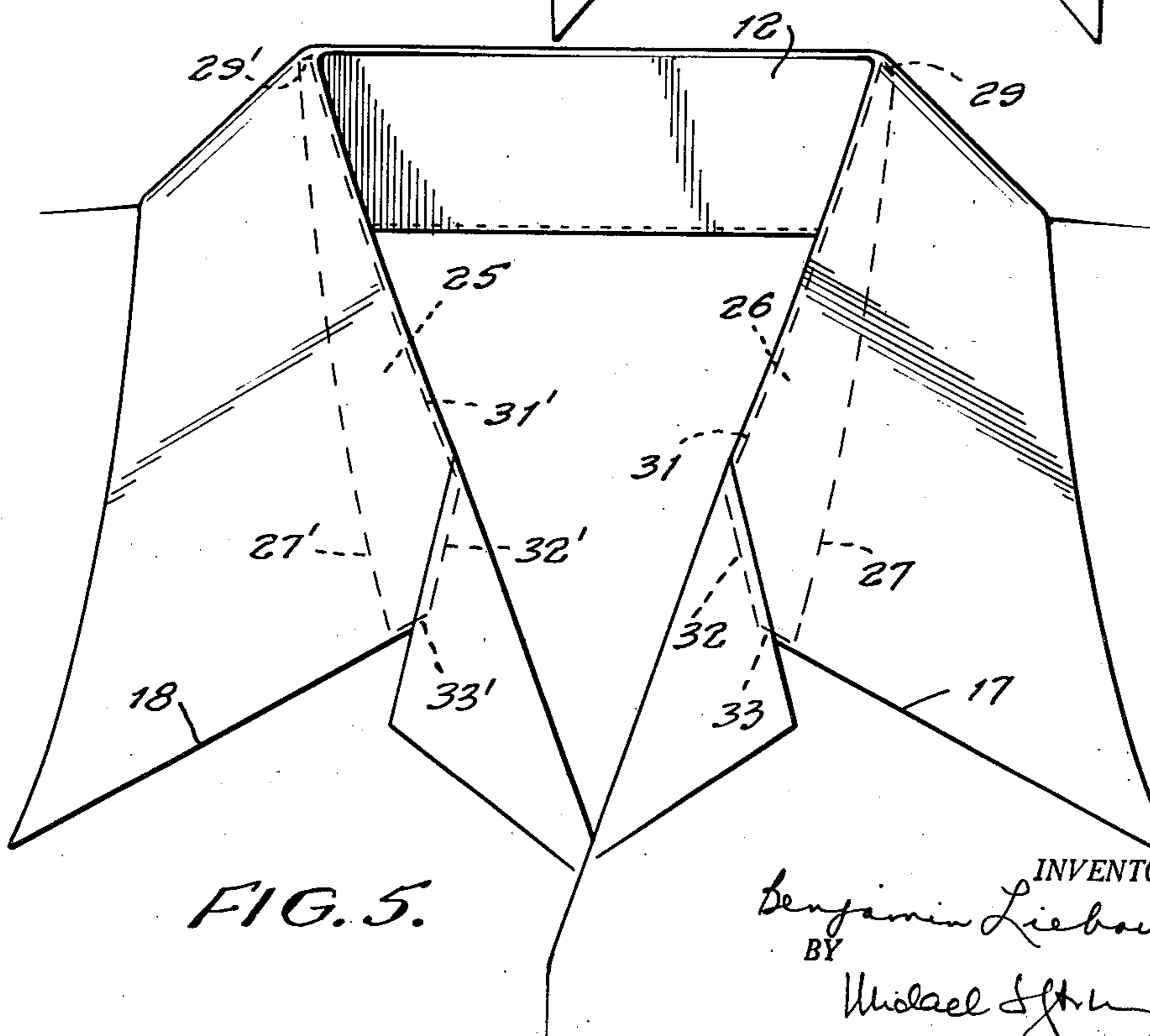


FIG. 5.

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UNITED STATES PATENT OFFICE

2,629,872

TWO-WAY SHIRT COLLAR

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9 Claims. (Cl. 2—131)

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My present invention relates to two-way shirt collars capable of being worn in open and closed positions.

It is an object of my present invention to provide a two-way shirt collar for permanent attachment to a shirt which is so constructed that the shirt has an attractive appearance when worn with the collar either open or closed.

More particularly, it is an object of my present invention to provide a one-piece shirt collar with stiffening inserts of a particular type so that a shirt provided with such inserts looks well either when used for dress purposes with the collar closed or when employed for sport and worn with the collar open and the points spread apart.

Further objects of my present invention will become apparent from the following detailed description of a preferred embodiment of my new collar and the attached drawings, in which:

Fig. 1 is a top view of a collar according to my present invention with parts of the inner ply broken away in order to show the reinforcing inserts;

Fig. 2 is a cross section of the collar shown in Fig. 1, along line 2—2 of Fig. 1;

Fig. 3 is a top view of the collar shown in Figures 1 and 2, attached to a shirt;

Fig. 4 is a front view of a shirt provided with a collar according to my present invention, with the collar closed; and

Fig. 5 is a similar view, with the collar open.

The collar shown in Figures 1 and 2 is composed in conventional manner of an outer fabric ply 10, a lining fabric ply 11, and an inner fabric ply 12, connected by the line of stitching 12'.

As shown in Figure 1, in a one-piece collar, the closed-collar foldline 13, i. e. that line along which the collar folds when worn in closed position is an outwardly curved smooth continuous line running substantially from the center point 14 of the collar to points 15 and 16 located on the front collar edges 17 and 18, respectively, a short distance from the corresponding collar corners 19 and 20.

Similarly, in a one-piece collar, the open-collar foldline 13', i. e. that line along which the collar folds when worn in open position, is an outwardly curved smooth continuous line running substantially from the center point of the collar to points 21 and 22 each located on the collar setting edge 23 of the collar a short distance from the corresponding collar corners 19 and 20, respectively.

I wish to note that the term "center point of the collar," as used above and in the following

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description and claims, is intended to indicate that point of the collar structure which is located substantially equidistant from the collar setting and bottom edges 23 and 24 and equidistant from the front collar edges 17 and 18.

In accordance with my present invention, I provide in a collar of the above type two spaced stiffened reinforced collar portions. The reinforcement of these collar portions is preferably obtained by reinforcing fabric inserts 25 and 26 which are preferably adhesively secured to the lining ply 11 as shown in Figure 2.

These reinforcing fabric inserts are shaped so as to determine the closed-collar and open-collar foldlines and to hold the collar in proper position when worn in closed and open positions. For this purpose, the reinforcing fabric inserts 25 and 26 have edges extending along the following lines:

Insert 26 has an edge 27 extending from point 15—which is the end point of the closed-collar foldline 13—along the closed-collar foldline 13 to a corner point 28 located on this foldline, another edge 29 extending from corner point 28 to corner point 30 located on the open-collar foldline 13', still another edge 31 extending from corner point 30 along the open-collar foldline 13' to the end point 21 of the open-collar foldline located on the collar setting edge 23, a further edge 32 extending from point 21 along the collar setting edge 23 to the collar corner 19, and finally, an edge 33 extending from the collar corner 19 along the front collar edge 17 to the corner point 15, meeting at that point edge 27 of the insert.

Similarly, insert 25 is bounded by the identically shaped edges 27', 29', 31', 32', and 33' extending between the corner points 16, 28', 30', 22, and 20.

I have found it advisable to keep the lengths of the edges of the inserts within certain limits. Thus, for instance, it is advisable that each of the edges 27, 27' has a length equal to between one half and three quarters, preferably equal to about two thirds, of the length along the closed-collar foldline from the center point 14 to the end points 15 and 16, respectively, thereof.

The length of each of the edges 31 and 31' is similarly determined: it is advisable that each of these edges has a length equal to between one half and three quarters, preferably equal to about two thirds of the length along the open-collar foldline from the center point 14 to the end points 21 and 22, respectively, thereof.

Similarly, the length of each of the edges 33 and 33' is held within certain limits: the length

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of each of these edges is equal to between one ninth and one sixth of the length of the corresponding front collar edge.

Finally, it is also advisable to maintain certain length limits for the edges 32 and 32': the length of each of these edges is equal to between one twelfth and one eighth of the length of the collar setting edge 23.

The fabric inserts 25 and 26 can be secured to the lining 11 in different ways: Thus, for instance, it is possible to embody in the fabric of which the inserts 25 and 26 and/or the lining 11 are made latently adhesive substances, such as cellulose derivatives, and to cause firm adhesion of the inserts to the lining by application of pressure, heat and solvent.

A collar of the type shown in Figures 1 and 2 is secured to the body of shirt 34 as shown in Figure 3, i. e. attached in well known manner to the upper edge of the shirt proper along the collar setting edge 23 of the collar.

Figures 4 and 5 disclose the results obtained by using in two-way collars reinforcing and stiffening inserts of the type proposed by me:

When the collar is worn closed as shown in Figure 4, that collar portion which contains the inserts 25 and 26 extends substantially flush with and in the plane of the shirt body and the collar is folded along the edges 27 and 27' of the inserts 26 and 25, respectively.

When the collar is worn open as shown in Figure 5, that portion of the collar which contains the inserts 25 and 26 extends substantially flush with and in the plane of the outer collar portion and the collar is folded along the edges 31 and 31' of the inserts 26 and 25, respectively.

Thus, the edges 27, 27' of the insert determine the closed-collar foldline of the collar when worn closed, and the edges 31, 31' determine the open-collar foldline of the collar when the same is worn as a sport shirt.

What I claim is:

1. An article of manufacture comprising in combination a shirt collar having a collar setting edge and two front collar edges forming collar corners with said collar setting edge; and two spaced stiffened reinforced collar portions forming part of said collar and each located in the neighborhood of one of said collar corners in substantially fixed relation to said collar corner and having a pair of outwardly curved smooth continuous bounding edges extending along outwardly curved smooth continuous lines running substantially from the center point of said collar to two points, one of said points located on one of said front collar edges a short distance from the corresponding collar corner and the other located on said collar setting edge a short distance from said collar corner.

2. An article of manufacture comprising in combination a multi-ply shirt collar having a collar setting edge and two front collar edges forming collar corners with said collar setting edge; and two reinforcing inserts each secured to at least one ply of said collar, each of said reinforcing inserts having a pair of outwardly curved smooth continuous bounding edges extending along outwardly curved smooth continuous lines running substantially from the center point of said collar to two points, one of said points located on one of said front collar edges a short distance from the corresponding collar corner and the other located on said collar setting edge a short distance from said collar corner.

3. An article of manufacture comprising in

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combination a multi-ply shirt collar having a collar setting edge and two front collar edges forming collar corners with said collar setting edge; and two reinforcing fabric inserts, each adhesively secured to at least one ply of said collar, each of said reinforcing fabric inserts having a pair of outwardly curved smooth continuous bounding edges extending along outwardly curved smooth continuous lines running substantially from the center point of said collar to two points, one of said points located on one of said front collar edges a short distance from the corresponding collar corner and the other located on said collar setting edge a short distance from said collar corner.

4. An article of manufacture comprising in combination a shirt collar having a collar setting edge and two front collar edges forming collar corners with said collar setting edge; and two spaced stiffened reinforced collar portions forming part of said collar and each located in the neighborhood of one of said collar corners in substantially fixed relation to said collar corner and having several smooth continuous bounding edges, one of said smooth continuous bounding edges extending from a corner point located on one of said front collar edges a short distance from the corresponding collar corner along an outwardly curved smooth continuous line running from said corner point to the center point of said collar, another of said smooth continuous bounding edges extending from said corner point along said front collar edge to said collar corner, still another of said smooth continuous bounding edges extending from said collar corner along said collar setting edge to another corner point located a short distance from said collar corner, and a further of said smooth continuous bounding edges extending from said other corner point along an outwardly curved smooth continuous line running from said other corner point to the center point of said collar.

5. An article of manufacture comprising in combination of a multi-ply shirt collar having a collar setting edge and two front collar edges forming collar corners with said collar setting edge; and two reinforcing fabric inserts, each adhesively secured to at least one ply of said collar, each of said reinforcing fabric inserts having several smooth continuous bounding edges, one of said smooth continuous bounding edges extending from a corner point located on one of said front collar edges a short distance from the corresponding collar corner along an outwardly curved smooth continuous line running from said corner point to the center point of said collar, another of said smooth continuous bounding edges extending from said corner point along said front collar edge to said collar corner, still another of said smooth continuous bounding edges extending from said collar corner along said collar setting edge to another corner point located a short distance from said collar corner, and a further of said smooth continuous bounding edges extending from said other corner point along an outwardly curved smooth continuous line running from said other corner point to the center point of said collar.

6. An article of manufacture comprising in combination a shirt collar having a collar setting edge and two front collar edges forming collar corners with said collar setting edge; and two spaced stiffened reinforced collar portions forming part of said collar and each located in the neighborhood of one of said collar corners in sub-

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stantially fixed relation to said collar corner and having a pair of outwardly curved smooth continuous bounding edges, one of said outwardly curved smooth continuous bounding edges extending from a point located on one of said front collar edges a short distance from the corresponding collar corner along an outwardly curved smooth continuous line running from said point to the center point of said collar for about two thirds of the length of the same and the other of said outwardly curved smooth continuous bounding edges extending from a point located on said collar setting edge a short distance from said collar corner along an outwardly curved smooth continuous line running from said point to the center point of said collar for about two thirds of the length of the same.

7. An article of manufacture comprising in combination a shirt collar having a collar setting edge and two front collar edges forming collar corners with said collar setting edge; and two spaced stiffened reinforced collar portions forming part of said collar and each located in the neighborhood of one of said collar corners in substantially fixed relation to said collar corner and having a pair of outwardly curved smooth continuous bounding edges, one of said outwardly curved smooth continuous bounding edges extending from a point located on one of said front collar edges a short distance—not exceeding one sixth of the length of said front collar edge—from the corresponding collar corner along part of an outwardly curved smooth continuous line running from said point to the center point of said collar, and the other of said outwardly curved smooth continuous bounding edges extending from a point located on said collar setting edge a short distance—not exceeding one eighth of the length of said collar setting edge—from said collar corner along part of an outwardly curved smooth continuous line running from said point to the center point of said collar.

8. An article of manufacture comprising in combination a shirt collar having a collar setting edge and two front collar edges forming collar corners with said collar setting edge; and two spaced stiffened reinforced collar portions forming part of said collar and each located in the neighborhood of one of said collar corners in substantially fixed relation to said collar corner and having a pair of outwardly curved smooth continuous bounding edges, one of said outwardly curved smooth continuous bounding edges ex-

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tending from a point located on one of said front collar edges a short distance—between one ninth and one sixth of the length of said front collar edge—from the corresponding collar corner along part of an outwardly curved smooth continuous line running from said point to the center point of said collar, and the other of said outwardly curved smooth continuous bounding edges extending from a point located on said collar setting edge a short distance—between one twelfth and one eighth of the length of said collar setting edge—from said collar corner.

9. An article of manufacture comprising in combination a shirt collar having a collar setting edge and two front collar edges forming collar corners with said collar setting edge; and two spaced stiffened reinforced collar portions forming part of said collar and each located in the neighborhood of one of said collar corners in substantially fixed relation to said collar corner and having a pair of outwardly curved smooth continuous bounding edges, one of said outwardly curved smooth continuous bounding edges extending from a point located on one of said front collar edges a short distance—between one ninth and one sixth of the length of said front collar edge—from the corresponding collar corner along an outwardly curved smooth continuous line running from said point to the center point of said collar for between one half and three quarters of the length of the same and the other of said outwardly curved smooth continuous bounding edges extending from a point located on said collar setting edge a short distance—between one twelfth and one eighth of the length of said collar setting edge—from said collar corner along an outwardly curved smooth continuous line running from said point to the center point of said collar for between one half and three quarters of the length of the same.

BENJAMIN LIEBOWITZ.

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