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NECK, BACK, THROAT, AND CHEST PROTECTOR.

APPLICATION FILED SEPT. 6, 1907. RENEWED JULY 8, 1910.

985,441.

Patented Feb. 28, 1911.

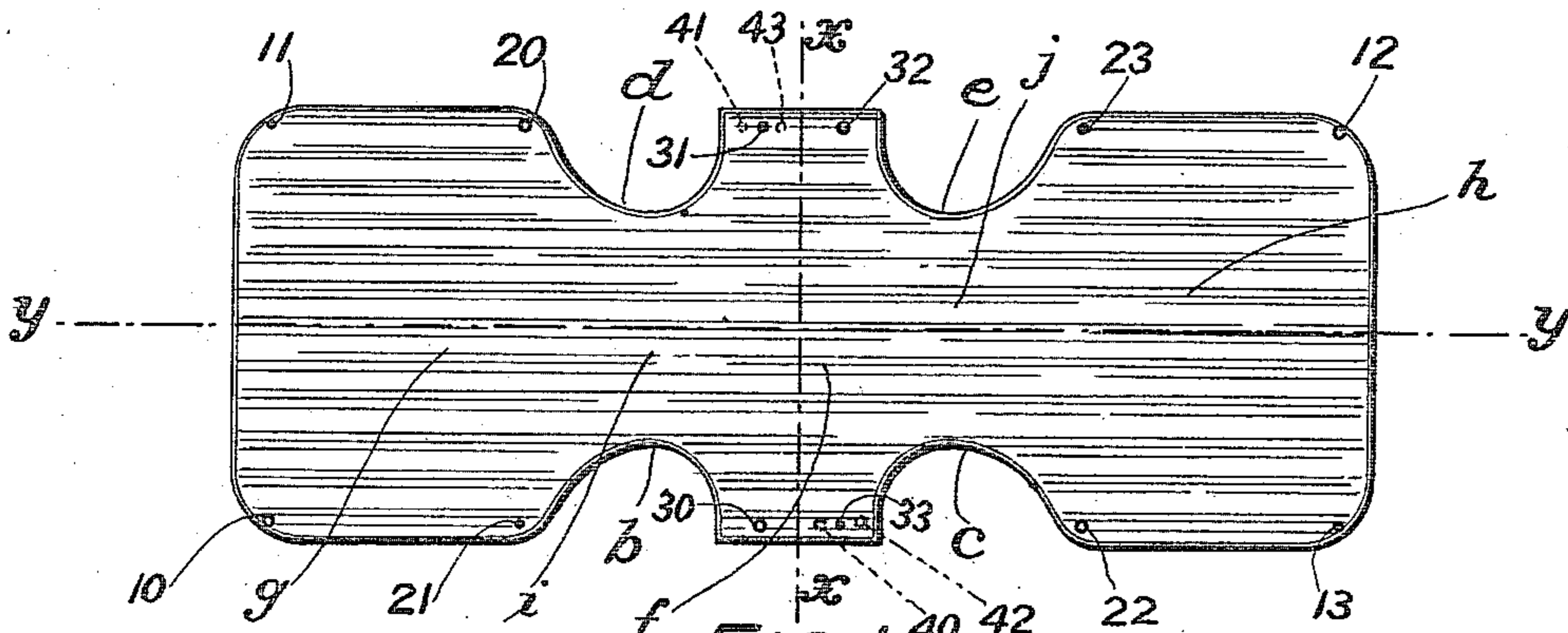


FIG. 1.

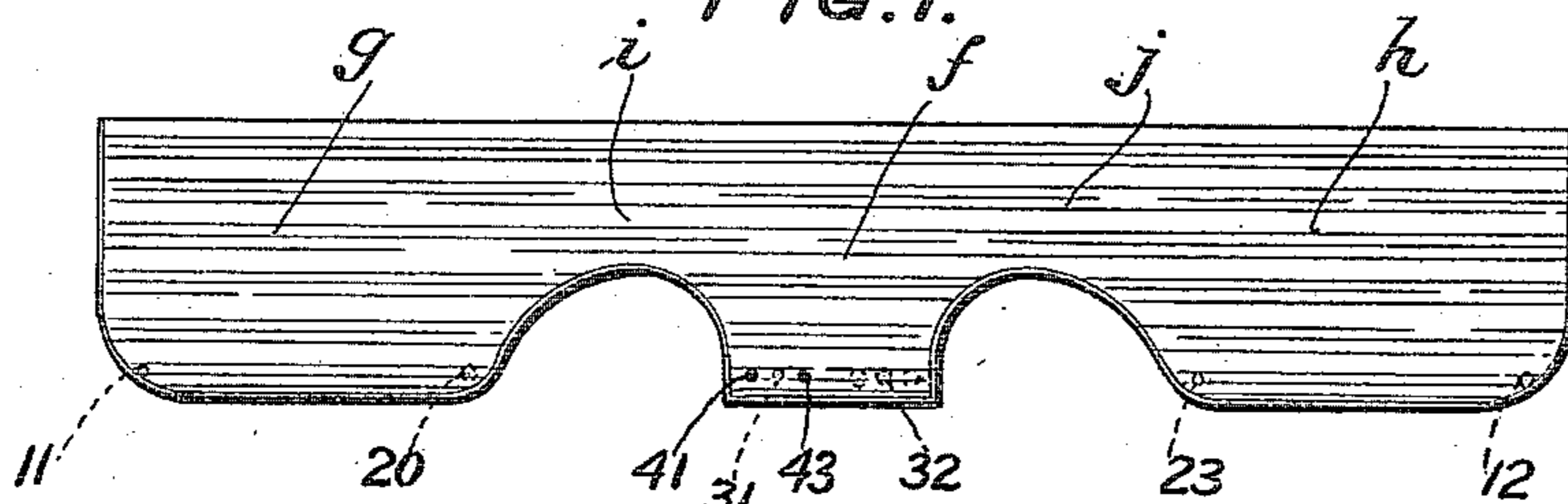


FIG. 2.

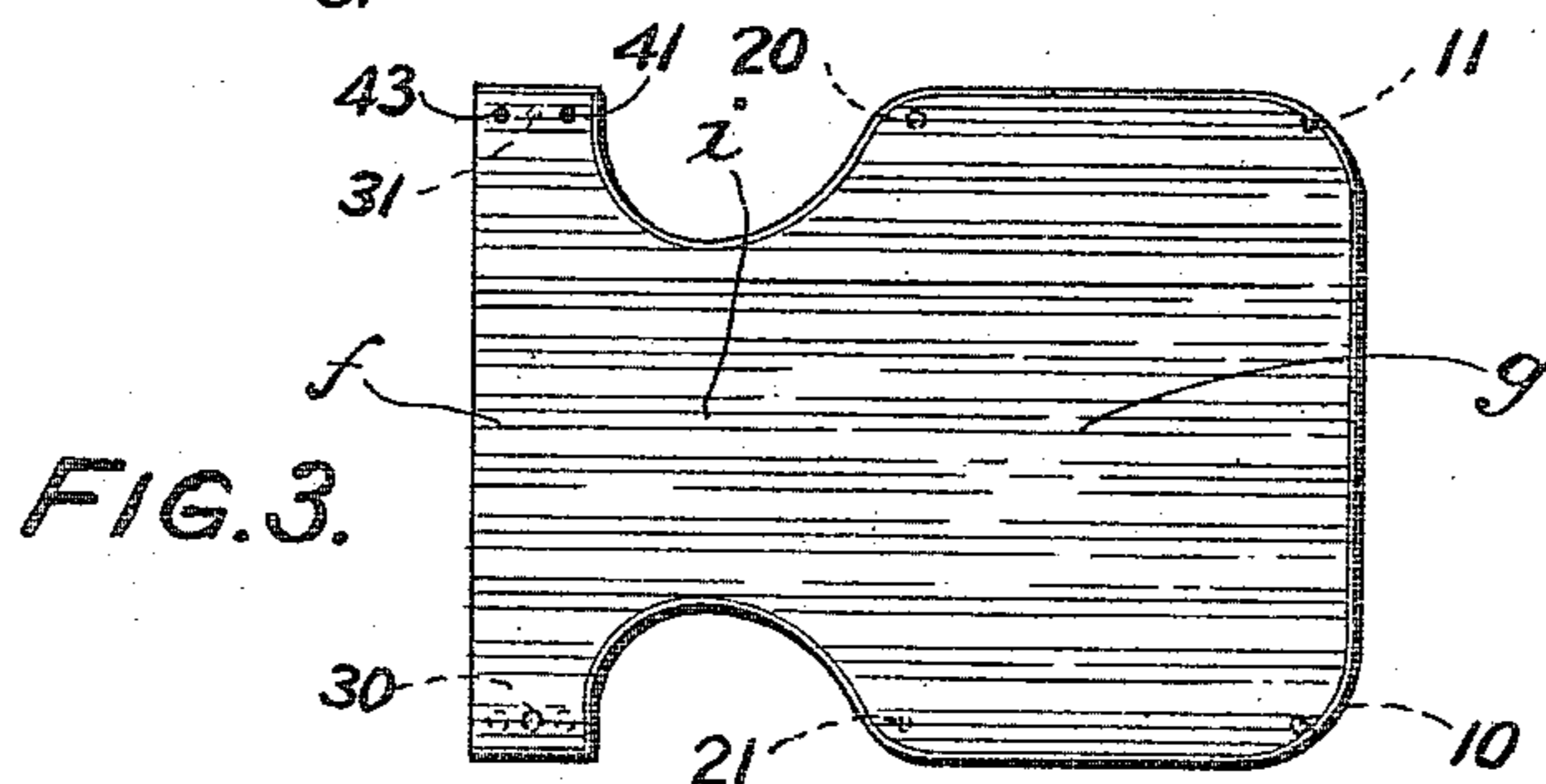


FIG. 3.

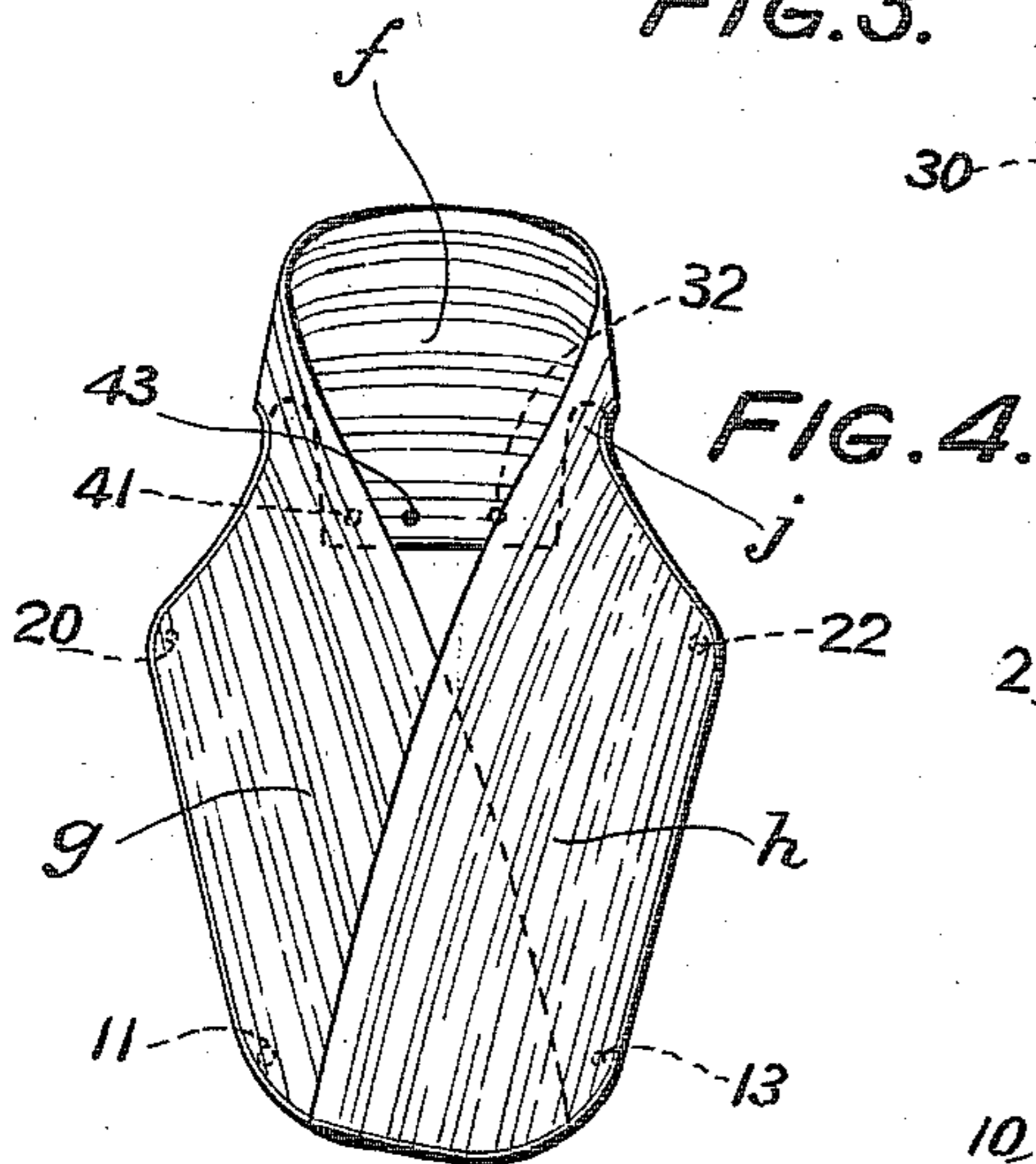


FIG. 4.

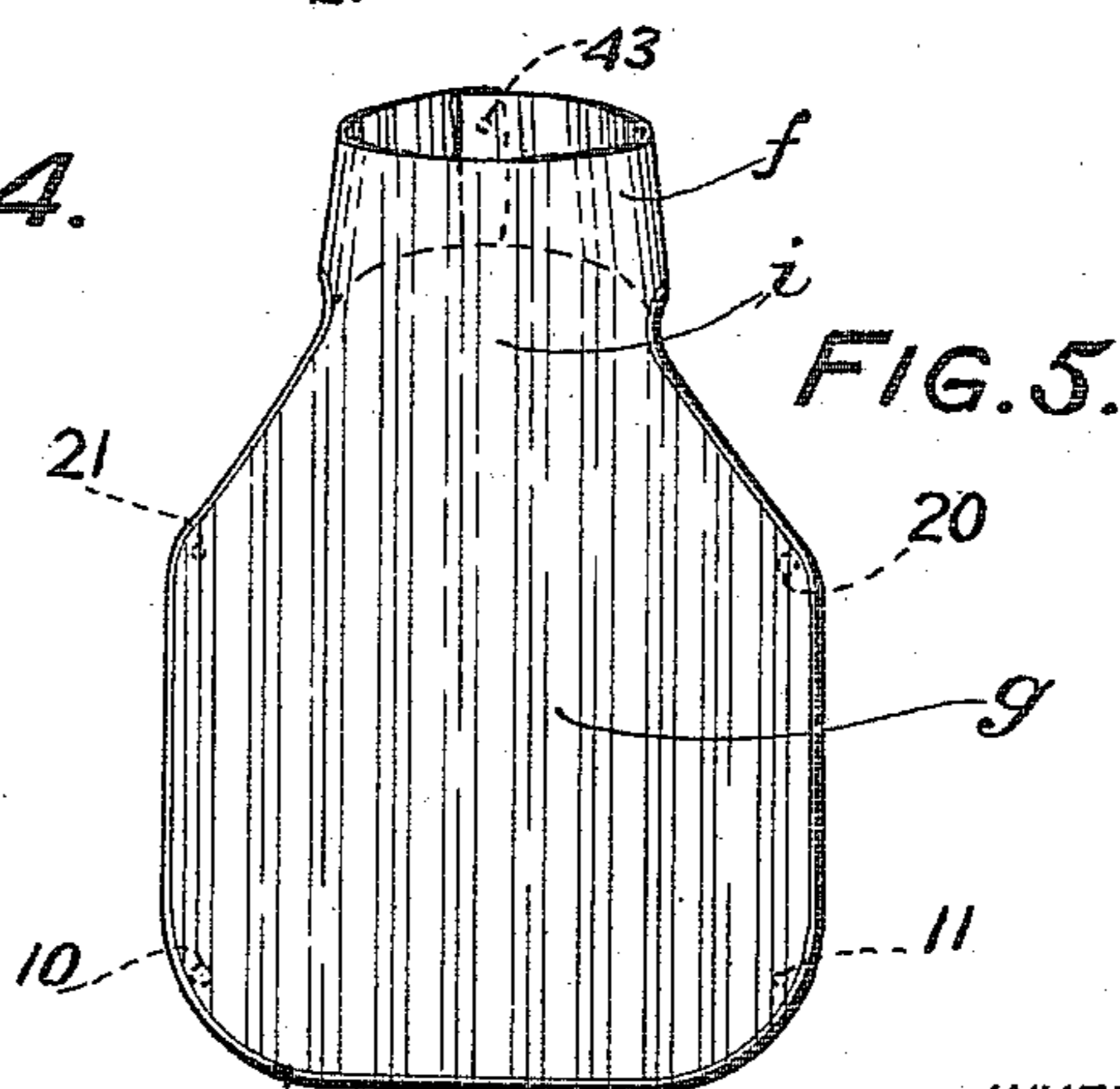


FIG. 5.

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NECK, BACK, THROAT, AND CHEST PROTECTOR.

985,441.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, NATHAN NEUMAN, a subject of the Emperor of Russia, residing at Philadelphia, county of Philadelphia, and State of Pennsylvania, have invented a new and useful Improvement in Neck, Back, Throat, and Chest Protectors, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, which form a part of this specification.

The object of my invention is to provide an article of wearing apparel adapted for use as a protector for the neck, the upper part of the back, and the chest.

Another object of the invention is to so construct said protector that it may be readily converted into a combined neck and throat muffler and chest protector.

In the drawings: Figure 1 is a face view of the article before being folded into position for use. Fig. 2 is a face view of the article when folded longitudinally to form a protector for the upper part of the back, the neck and the chest. Fig. 3 is a face view of the article when folded transversely to form a combined neck-and-throat muffler and chest protector. Fig. 4 is a perspective view showing the position assumed by the device of Fig. 2 on the body of the wearer. Fig. 5 is a perspective view showing the position assumed by the device of Fig. 3 on the body of the wearer.

The blank consists preferably of a woven fabric. The opposite side edges of the blank are each cut away, on each side of the line $x-x$ bisecting the blank transversely, to form two cup shaped indentations, the indentations b, c , in one side edge being directly opposite the indentations d, e in the other side edge. Each indentation is cut to a depth substantially equal to one fourth of the extreme width of the blank shown in Fig. 1. The side edge of the blank between each indentation and the ends of the blank is substantially straight, and parallel with the immediately opposite section of the other side edge, except that the blank is rounded off at the corners. The side edge of the blank between each two adjacent indentations is also substantially straight, and parallel with the corresponding and immediately opposite section of the other side edge.

The blank cut to shape as described may be conveniently considered as divided into

the central portion f of short length but maximum width, the end sections g, h , of considerable length and maximum width, and the contracted portions i, j , formed by the indentations and respectively connecting the end sections, g, h , with the central portion f . If the blank so shaped is folded or doubled upon itself longitudinally on the line y, y , Fig. 1, the protector shown in Figs. 2 and 4 is formed. The middle part f is placed on the back of the neck and the opposite ends brought forward along the opposite sides of the neck and down upon the chest. We thus have an efficient protector for the upper part of the back, the neck and the chest; the center part f protecting the back of the neck and the upper part of the back, the contracted portions, i, j , protecting opposite sides of the neck and the end sections, g, h , protecting the chest. The protector fits all parts of the body with which it contacts in a manner not possible in the case of an ordinary scarf and folds down over the chest preferably without the end sections g, h , crossing, the said ends merely overlapping to a greater or less extent.

If the blank so shaped is folded or doubled upon itself transversely on the line $x-x$ of Fig. 1, the combined muffler and protector shown in Figs. 3 and 5 is formed. The device is placed against the chest and the ends of the part f passed around opposite sides of the neck to the back and there connected together. We thus have an efficient muffler for the neck and throat combined with an efficient chest protector. If desired, the part f of the device of Fig. 4 may be folded down partly over the contracted parts i, j , so as to form a neck and throat muffler of four thicknesses. This shortens the chest protector, but leaves it sufficiently long for ample protection.

The blank is preferably provided with suitable fasteners to hold the plies in position when folded either longitudinally or transversely. It is also provided with suitable fasteners to enable the ends of the central part f to be fastened together at the back when the device is used as a muffler. I have shown a suitable arrangement of fasteners in the drawings and have illustrated them as ordinary button and socket fasteners, although any other arrangement and construction of fasteners may be employed. The following fasteners are shown to hold

the plies in suitable position: the buttons 11, 13, 21, 23, 31, 33 and the sockets 10, 12, 20, 22, 30, 32. When the blank is folded longitudinally on the line $y-y$ button 11 engages socket 10, the button 13 engages socket 12, the button 21 engages socket 20, the button 23 engages socket 22, the button 31 engages socket 30, and the button 33 engages socket 32. When the blank is folded transversely on the line $x-x$, button 11 engages socket 12, button 13 engages socket 10, button 21 engages socket 22, button 23 engages socket 20, button 31 engages socket 32 and button 33 engages socket 30.

All of the above named fasteners are on the face of the blank shown in Fig. 1. On the back of the blank, adjacent to one edge of the central portion of the blank, are the sockets 40 and 42; and on the back of the blank, adjacent to the other edge of the central portion of the blank, and diagonally opposite to the sockets 40 and 42, are the buttons 41 and 43. When the blank is folded transversely to form the combined neck and throat muffler and chest protector, the opposite ends of the muffler are attached together at the back by engaging the buttons 41 and 43 respectively with the sockets 40 and 42.

Having now fully described my invention, what I claim and desire to protect by Letters Patent is:

1. A protector comprising an elongated fabric having relatively wide end sections and central portion and having cup shaped indentations between said end sections and central portion, to form intermediate contracted portions, and adapted to be folded either longitudinally or transversely to form respectively a protector for the neck and chest or a protector for the neck, throat and chest.

2. A protector comprising an elongated fabric whose opposite side edges are each provided with two indentations spaced apart and on opposite sides of a line bisecting the fabric transversely, said edges being otherwise substantially straight and parallel to each other, the indentations along one side being respectively opposite the indentations along the other side edge, thereby forming a fabric having a central portion and end sections of substantially equal width connected by relatively contracted portions.

3. A protector comprising an elongated fabric and fastening devices along its side edges, the fastening devices along one half of either side edge being respectively complementary to both the fastening devices along the other half of the same side edge and the immediately opposite half of the other side edge, whereby the fabric may be folded upon itself either longitudinally or transversely and the overlapping parts secured together at the edges.

4. A protector comprising an elongated fabric whose opposite side edges are respectively provided with two pairs of indentations, the indentations of one pair being opposite the indentations of the other pair, and the two indentations of a pair being on opposite sides of a line bisecting the fabric transversely, fastening devices along the side edges of the fabric, the fastening devices along one-half of either side edge being respectively complementary to both the fastening devices along the other half of the same side edge and the immediately opposite half of the other side edge, whereby the fabric may be folded upon itself either longitudinally or transversely and the overlapping parts secured together at the edges.

5. A protector comprising an elongated fabric whose opposite edges are provided with two pairs of indentations, the indentation of one pair being opposite the indentations of the other pair, and the two indentations of a pair being spaced apart and on opposite sides of a line bisecting the fabric transversely, thereby forming a central portion and end sections united by relatively contracted portions, fastening devices along the side edges of the end sections, the fastening devices along the side edge of either end section being complementary to the fastening devices both along the opposite side edge of the same end section and the corresponding side edge of the other end section.

6. A protector comprising an elongated fabric whose opposite edges are provided with two pair of indentations, the indentation of one pair being opposite the indentations of the other pair, and the two indentations of a pair being spaced apart and on opposite sides of a line bisecting the fabric transversely, thereby forming a central portion and end sections united by relatively contracted portions, fastening devices along the side edges of the end sections, the fastening devices along the side edge of either end section being complementary to the fastening devices both along the opposite side edge of the same end section and the corresponding side edge of the other end section, and complementary fastening devices along opposite edges of the central portion.

7. A protector comprising an elongated fabric whose opposite edges are provided with two pairs of indentations, the indentations of one pair being opposite the indentations of the other pair, and the two indentations of a pair being spaced apart and on opposite sides of a line bisecting the fabric transversely, thereby forming a central portion and end sections united by relatively contracted portions, fastening devices along the central portion, the fastening device adjoining the edge of the central portion on either side of said transverse bisecting line being complementary to the fastening de-

vice adjoining the same edge of the central portion on the other side of said transverse bisecting line and the fastening device adjoining the opposite edge of the central portion on the same side of said transverse bisecting line.

8. A protector comprising an elongated fabric whose opposite edges are provided with two pairs of indentations, the indentation of one pair being opposite the indentations of the other pair, and the two indentations of a pair being spaced apart and on opposite sides of a line bisecting the fabric transversely, thereby forming a central portion and end sections united by relatively contracted portions, fastening devices along the central portion, the fastening device adjoining the edge of the central portion on either side of said transverse bisecting line being complementary to the fastening device adjoining the same edge of the central portion on the other side of said transverse bi-

secting line and the fastening device adjoining the opposite edge of the central portion of the same side of said transverse bisecting line, fastening devices along the side edges of the end sections, the fastening devices along the side edge of either end section being complementary to the fastening devices both along the opposite side edge of the same end section and the corresponding side edge of the other end section, all said fastening devices being secured to the same face of the blank, and complementary fastening devices along opposite edges of the central portion.

In testimony of which invention, I have hereunto set my hand, at Philadelphia, on this 28th day of August, 1907.

NATHAN NEUMAN.

Witnesses:

CLIFFORD K. CASSEL,
FRANK S. BUSSEY.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."
