Jan. 29, 1957 V. M. F. GORDON 2,779,333

WATERPROOF GARMENTS

Filed April 21, 1955

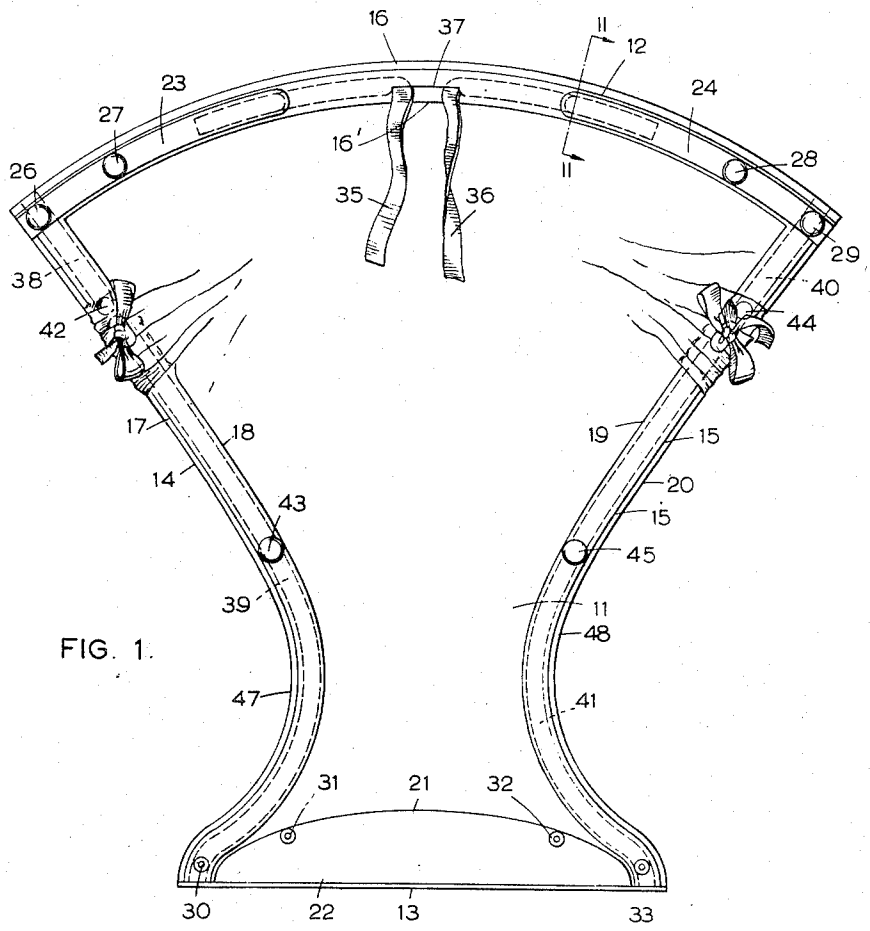


FIG. 1.

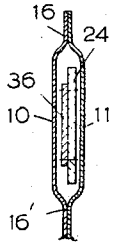


FIG. 2.

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WATERPROOF GARMENTS

Valerie M. F. Gordon, Kirkhill, Scotland, assignor to V. G. (Inverness) Limited, Kirkhill, Scotland

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Claims priority, application Great Britain April 27, 1954

5 Claims. (Cl. 128—287)

This invention relates to waterproof knicker-like garments for example for babies. Examples of these garments are described in the specifications of British Patents Nos. 665,724 and 665,676.

In order to adjust the garment for different sizes of babies it was suggested to provide a tape to gather in substantially the whole of the back edge which extends around the back and sides of the baby. However, it has been found that this gathering makes a marking on the baby's back and may be somewhat uncomfortable.

According to the present invention the back edge is provided with a seam containing a pair of spaced flexible strips of at least one-third inch depth fixed to the garment and stiff enough to prevent buckling of the strips and draw tapes connected to the strips for adjusting the distance apart of the strips.

It is most important that the waist of the garment is tight, as it does not work properly unless it hangs from the waist. If a narrow soft draw tape is used around the back, the tape tends to become wrinkled and to cut into the baby's back. The flexible strips provided in accordance with the present invention are not only of a suitable width but also stiff enough to prevent the waist from creasing or buckling.

The strips may be made of a synthetic plastic substance such as polyvinyl chloride and may be from one-third to three-quarters of an inch deep, from 0.05 to 0.2 inch thickness, and from four to seven inches in length. The strips may extend from the ends of the back edge. The adjacent ends of the strips may be spaced apart from two to seven inches when the back edge is ungathered. The draw tapes which may be of nylon may be stitched or connected by thermal welding to the strips. The tape may continue to the press studs as a reinforcement. The front ends of each of the strips may be fixed by a pair of spaced apart press studs.

The invention will now be further described by way of example with reference to the accompanying diagrammatic drawings wherein:

Figure 1 is a view of a garment made in accordance with the invention in flat condition; and

Figure 2 is a sectional view on the line II—II on Figure 1.

The garment comprises two sheets 10, 11 of synthetic plastic material forming a back edge 12, front edge 13, and side edges 14, 15. The back edge is so called because as a whole it is disposed rearwardly of the front edge 13 but it will be understood that the side parts of the back edge will be at the sides of the waist in use. The sheets 10, 11 are heat sealed together at 16, 16' to form a seam, and at 17, 18 and 19, 20 to form another seam, and also at 21, 22. Disposed in the seam 16, 16' are two strips of plastic 23, 24 which are fixed to the sheets 10, 11 at the back edge by press stud members 26, 27 and 28, 29 each pair being spaced apart along the sides of the back edge. These press stud members are connectable to corresponding members 30, 31 and 32, 33 so that the back edge and front edge together form the waist. These plastic strips 23, 24 have draw tapes 35, 36 sewn to them and extending out of a slit 37 in the seam whereby the strips can be drawn together to the desired extent and the draw tapes tied in a knot or bow.

The seams 17, 18 and 19, 20 also contain draw tapes 38, 39 and 40, 41 which can be drawn together and tied in bows. These draw tapes are fixed by heat sealing of the plastic material at 42, 43 and 44, 45 so that only the parts near the bows can be gathered. Thus there will be no gathering of the front side edges 47, 48 which is important for comfort in use. The side edges of the sheets forming the leg openings are cut away to provide a narrowest part located between transverse lines one-sixth and one-half respectively of the length of the garment from the front edge, said narrowest part being from 5 to 40 percent smaller than the front edge all as described in the specification of British Patent No. 665,676.

I claim:

1. A waterproof knicker-like garment the back edge of which is provided with a seam containing a pair of spaced flexible strips of at least one-third inch depth, fixed to the garment and stiff enough to prevent buckling of the strips, and draw tapes connected to the strips for adjusting the distance apart of the strips.

2. A garment as claimed in claim 1 wherein the strips are made of a synthetic plastic substance and are from one-third to three-quarters of an inch deep, from 0.05 to 0.2 inch thickness, and each from four to seven inches in length.

3. A garment as claimed in claim 1 comprising a sheet of waterproof material and means for connecting the rear edge near the sides to the front edge near the sides so that said edges form the waist, said strips extending from the corners of the back edge along the edge towards the back of the waist.

4. A garment as claimed in claim 1 comprising a double layer of waterproof material connected along spaced lines by heat sealing to form said seam.

5. A garment as claimed in claim 1 wherein a pair of press stud members are provided at each side of the back edge, spaced apart and connecting the strips to the garment and serving also for attachment to corresponding press stud parts at the sides of the front edge.

References Cited in the file of this patent

UNITED STATES PATENTS

2,573,903 Gordon ---------- Nov. 6, 1951