E. D. MARSH.

CHILD'S WATERPROOF DIAPER.

APPLICATION FILED NOV. 19, 1919.

1,339,602. **Patented May 11, 1920.**

2 SHEETS—SHEET 1.

Fig. 1.

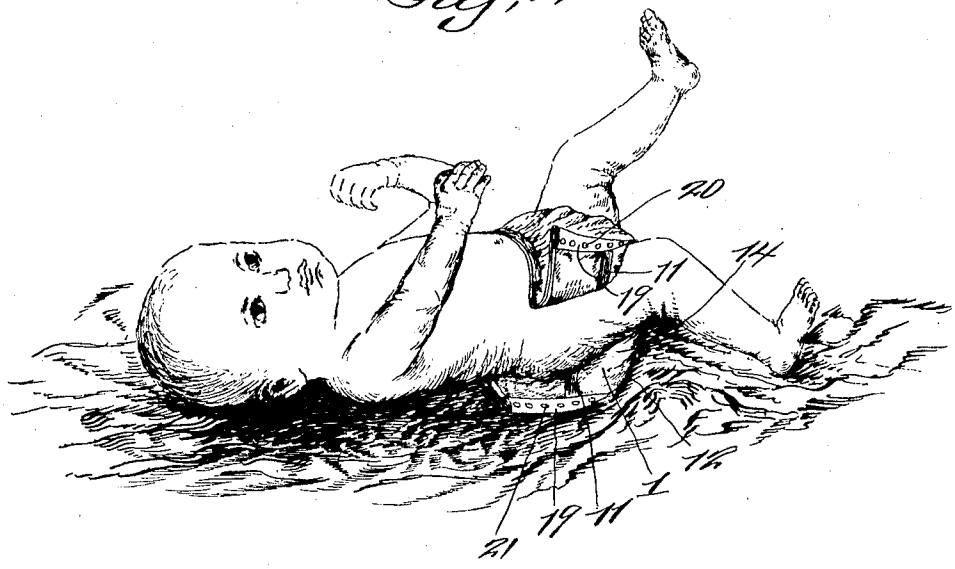
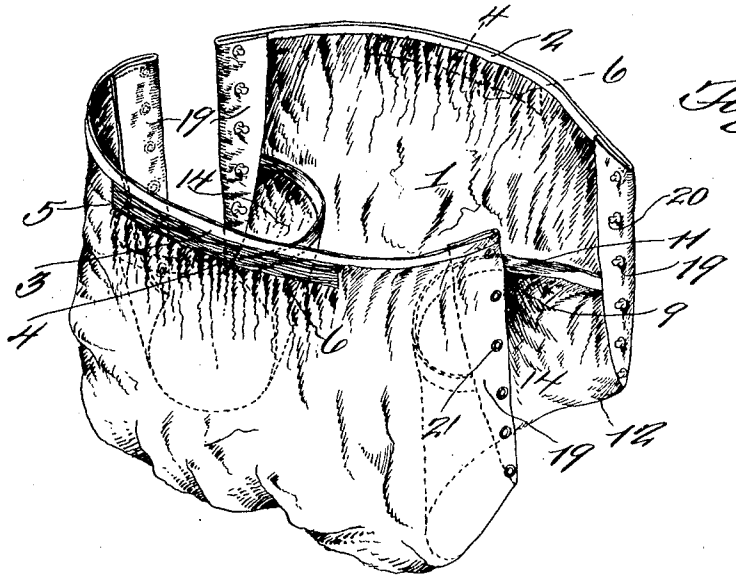


Fig. 2.



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2 SHEETS—SHEET 2.

Fig. 3.

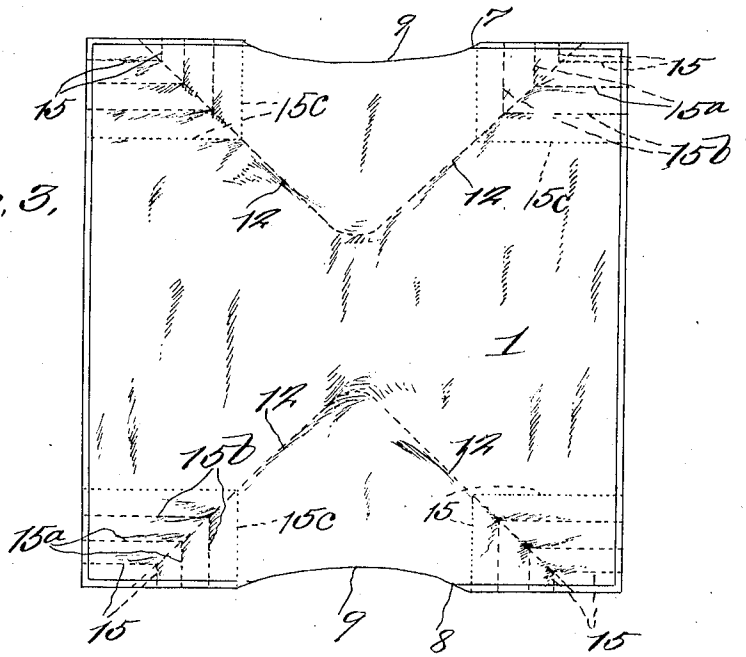


Fig. 5.

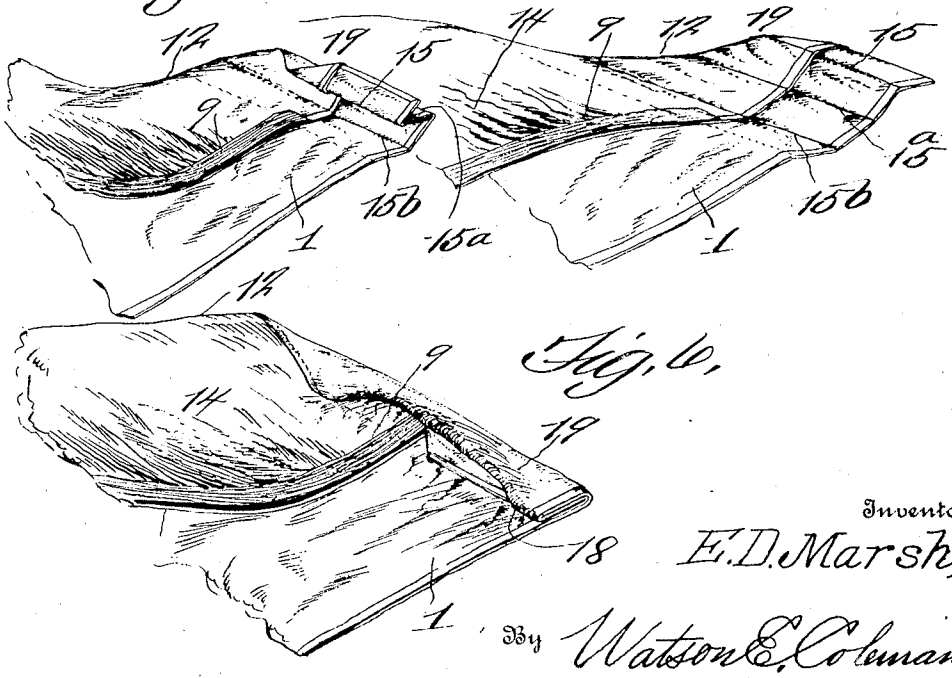


Fig. 4.

Fig. 6.

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UNITED STATES PATENT OFFICE.

ELSIE D. MARSH, OF WATERVLIET, NEW YORK.

CHILD'S WATERPROOF DIAPER.

1,339,602. Specification of Letters Patent. Patented May 11, 1920.

Application filed November 19, 1919. Serial No. 339,095.

To all whom it may concern:

Be it known that I, ELSIE D. MARSH, citizen of the United States, residing at Watervliet, in the county of Albany and State of New York, have invented certain new and useful Improvements in Children's Waterproof Diapers, of which the following is a specification, reference being had to the accompanying drawings.

This invention relates to an improved water-proof diaper particularly adapted for young children up to the ages of three or four years, and an object of the invention is to provide a very simple and efficient article of wearing apparel of this kind, which may be manufactured for a relatively low cost and sold at a reasonable profit.

Another object of the invention is to provide a diaper preferably constructed of any suitable water-proof material such as rubber sheeting, or the like, though not necessarily, for it is obvious that it may be constructed of any other suitable material, such as fabric, for instance.

A further object of the invention is to provide a child's diaper having inwardly and upwardly turned leg receiving parts, so folded and constructed as to permit the diaper to be constructed from a single piece of material, so that the diaper may fit the wearer, with the leg parts extending inwardly and upwardly and engaging the inner parts of the legs of the wearer and having elastic edging to engage about the legs near the crotch, thereby preventing soiling or wetting the stockings, the sides of the diaper adjacent the legs being fastened adjacent the outside of the body, thereby holding the diaper on the wearer.

A still further object of the invention is to construct the diaper from a single blank of rubber sheeting preferably square or rectangular in plan, though not necessarily, thereby preventing seams being formed in the article of wearing apparel that would cause leakage.

A still further object of the invention is to provide elastic edgings at the front and rear of the waist band of the diaper so as to hold the same firmly on the body of the wearer.

While the design and construction at present illustrated and set forth is deemed preferable, it is obvious that as a result of a reduction of the invention to a more practical form for commercial purposes, the invention may be susceptible to changes, and the right to these changes is claimed, provided they are comprehended within the scope of what is claimed.

The invention comprises further features and combination of parts, as will be hereinafter set forth, shown in the drawings and claimed.

In the drawings:—

Figure 1 is a view showing the application of the article of wearing apparel as applied, showing one of the sides of the diaper open in order to show the formation of the leg of the same.

Fig. 2 is an enlarged view of the apparel removed, more clearly showing the construction of the same.

Fig. 3 is a plan view of a single piece of water-proof material preferably in a square or rectangular shape illustrating the lines on which the single sheeting may be folded, particularly adjacent the corners thereof in order to form the legs of the apparel.

Fig. 4 is an enlarged detail view showing the first fold of one of the corners of the sheeting, thereby illustrating the first step toward forming the leg of the apparel.

Fig. 5 is a view showing the second step of folding the material toward completing the formation of the leg of the apparel.

Fig. 6 is a view showing the last step of folding the material in order to complete the folding of one corner of the blank or sheet, thereby completing the folding of the corner of the sheeting in order to complete half the construction of the leg of the apparel.

Referring more especially to the drawings, 1 designates a single piece of water-proof material, preferably rubber sheeting or the like, though not necessarily, and which is preferably square or rectangular in shape. The opposite edge portions 2 and 3 of the blank sheeting are shirred as indicated at 4 and vulcanized at 5 to the outer face of the blank adjacent the opposite edge portions 2 and 3 are elastic edgings 6. The opposite edge portions 2 and 3 of the blank sheeting form forward and rear supporting parts of the diaper or apparel and owing to the shirring of the material at these points, the elastic edgings are allowed to give or stretch so that when the sides of the diaper or apparel are fastened, the edge portions 2 and 3 will fit naturally and snugly about the waist of the wearer.

The blank sheeting at the edge portions

7 and 8, those at right angles to the edge portions 2 and 3, are scooped out or cut away, as indicated at 9. Vulcanized or otherwise secured at 10 to the edges of the cut away or scooped out portions 9 are elastic pieces 11.

In order to form the legs of the apparel the blank sheeting is folded at 12 and the parts 13 between the folds 12 are folded inwardly, thereby forming the legs 14 of the apparel, with the elastic pieces 11 positioned adjacent the upper part of the leg and extending inwardly adjacent the crotch, and acting to hold the upper part of the leg of the apparel closely in engagement with the leg of the wearer. Each corner part of the water-proof blank is then folded outwardly on the line 15, and then inwardly on the line 17, and is then vulcanized or otherwise secured at 18 to the blank of water-proof material. When making these folds at the corners of the blank, the end portions of the leg forming pieces 13 are turned under the fold, in fact or likewise folded, however before vulcanizing at 18 the elastic pieces 11 have their ends vulcanized or otherwise secured under the last mentioned folded portions. By constructing these various folds and subsequently vulcanizing as at 18, heavy separable opposite leg parts or edges 19 are formed. These separable opposite leg parts 19 are provided with resilient head and socket fasteners 20 and 21, of conventional form, similar to those used upon ladies' garments. These fasteners may be termed snap hooks and are designed for the purpose of fastening the opposite leg parts 19 together adjacent the outside portions of the legs of the wearer, thereby drawing the legs of the apparel or garment tightly about the legs of the wearer. The material of the blank adjacent the scooped out or cut away portion 9, is shirred, as shown, before it is vulcanized to the elastic piece 11, so as to permit the legs of the garment or apparel to expand with the elastic piece. When the opposite leg parts 19 are fastened together, their upper portions also act to hold the garment or apparel closely or tight about the waist of the wearer, the elastic piece 6 being allowed to give as the garment is drawn about the waist. It will be noted that by the legs of the garment or apparel extending inwardly and about the legs of the wearer, the stockings of the wearer are prevented from getting wet. Furthermore, the legs of the wearer are allowed to have full play, when the child is lying down or in any other posture, and furthermore owing to the fullness of the garment between the legs of the apparel, and since the legs extend inwardly, the child is allowed full movement of its legs, when walking or crawling or when otherwise exercising.

In order to complete the formation of the legs of the garment or diaper, the blank is folded, the corners of the blank are further folded upon the lines 15^a and 15^b, and vulcanized at the point indicated by the dotted lines 15^c.

The invention having been set forth what is claimed is new and useful is:—

1. A diaper constructed from a single piece of water-proof material having inwardly and upwardly extending full leg portions, having their upper portions to engage tightly about the legs of the wearer, the outer portions of the legs of the apparel having separable parts provided with fasteners, thereby holding the legs of the apparel on the wearer as well as holding the waist of the apparel about the waist of the wearer.

2. A garment of the kind set forth constructed from a single blank of water-proof material folded to form front and back portions of the garment, the upper edges of the front and back portions having elastic pieces, said garment having parts of the front and back portions folded inwardly to form legs of the garment, the outer portions of the legs having separable parts provided with fasteners to hold the legs of the garment in engagement with the legs of the wearer, and to hold the upper parts of the front and back portions of the garment tight about the waist of the wearer.

3. A garment of the kind set forth, constructed from a single blank of water-proof material being folded to form front and back portions of the garment, the edges of the upper parts of the front and back portions having elastic edgings, said garment having parts between the front and back portions folded inwardly to form inwardly and upwardly extending legs to receive the legs of the wearer, the upper parts of the legs of the garment having elastic pieces, the outer portions of the legs having separable parts provided with fasteners adapted to hold the elastic legs and the elastic parts of the front and back portions in engagement with the legs and waist of the wearer.

4. A garment of the kind set forth constructed from a single blank of water-proof material, rectangular in plan, the blank being folded upon itself to form the front and back portions of the garment having elastic edgings at their upper edges, said opposite portions of the blank of material between the front and back portions being folded inwardly to form legs having elastic pieces at their upper edges and adapted to receive the legs of the wearer, the corner portions of the blank of material adjacent the inwardly folded legs being folded upon themselves, thereby forming reinforced separable outer leg parts having fasteners to hold the legs of the garment and the upper

parts of the front and back portions in engagement with the legs and the waist of the wearer.

5. A garment of the kind set forth, constructed from a single blank of water proof material which is of rectangular form and having angular lines of demarcation on which the material is folded from opposite sides of the blank, the corner portions of the blank having lines of demarcation upon which the corner portions of the blank are folded, whereby the parts of certain opposite sides of the blank material between the angularly arranged lines of demarcation may form legs extending inwardly of the garment, the folded corners of the blank material having receiving socket and head connections, whereby the garment may be fastened upon the body of the wearer.

6. A diaper of the kind set forth constructed from a single blank of water proof material folded to form the front and back portions, said blank from which the diaper is formed having parts of the front and back portions folded inwardly to form legs of the diaper, said diaper having a central loose full portion between the legs, whereby the legs of the wearer may have freedom of movement, the outer portions of the legs having separable parts provided with fasteners to hold the legs of the garment in engagement with the legs of the wearer to hold the upper parts of the front and back portion of the diaper tight about the waist of the wearer.

7. A garment as set forth, comprising a single blank of water proof material, the opposite parts of said blank being folded inwardly to form full leg portions, the outer parts of the leg portions having opposing overlapping edges provided with inter-engaging fasteners, the upper parts of the leg portions adapted to be drawn tight about the leg by the fasteners of the vertical edges of the leg portions, said garment between the leg portions having a loose full part, said garment having opposing waist band engaging elements merging into the overlapping fastened edge parts of the legs to support the full loose part between the legs.

In testimony whereof I hereunto affix my signature.

ELSIE D. MARSH.