

J. B. THORPE.
 INFANT'S BAND.
 APPLICATION FILED OCT. 22, 1908.

1,106,687.

Patented Aug. 11, 1914.

Fig. 1.

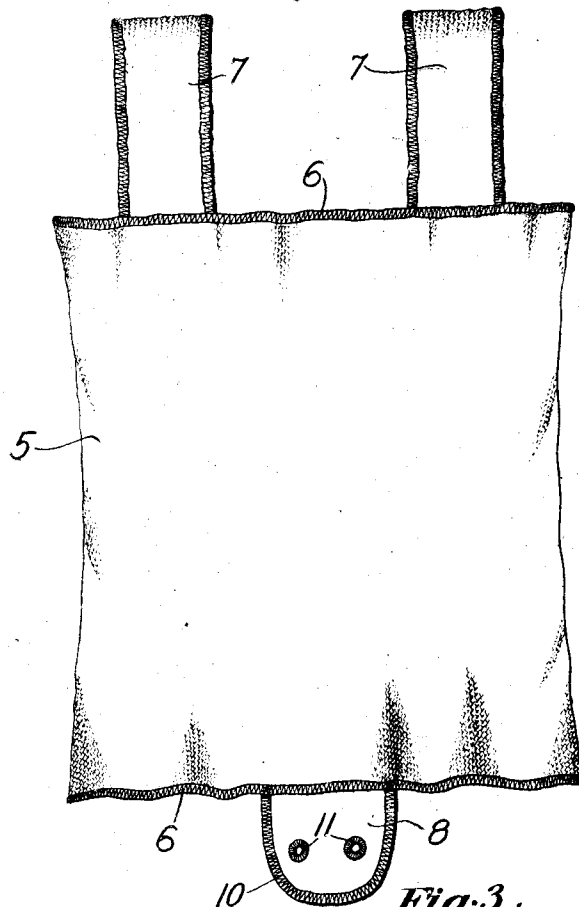


Fig. 2.

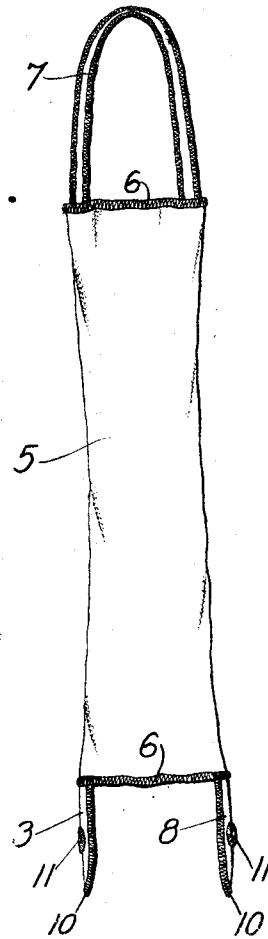


Fig. 4.

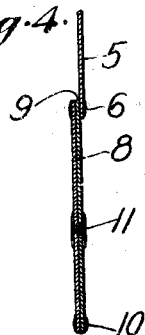
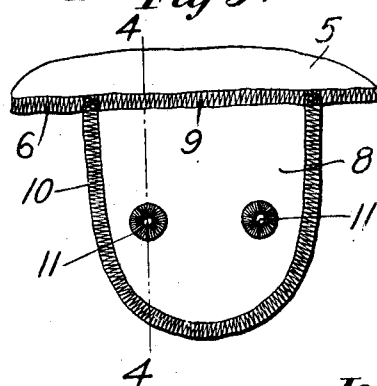


Fig. 3.



Witnesses:
 Robert H. Kammeler.
 Edwin J. Luce

Inventor:
 Joseph B. Thorpe,
 by Emory R. Booth, Attys

UNITED STATES PATENT OFFICE.

JOSEPH B. THORPE, OF HIGHLANDVILLE, MASSACHUSETTS, ASSIGNOR TO BROWN DURRELL CO., OF BOSTON, MASSACHUSETTS, A CORPORATION OF MASSACHUSETTS.

INFANT'S BAND.

1,106,687.

Specification of Letters Patent.

Patented Aug. 11, 1914.

Application filed October 22, 1908. Serial No. 459,012.

To all whom it may concern:

Be it known that I, JOSEPH B. THORPE, a citizen of the United States, and a resident of Highlandville, in the county of Norfolk and State of Massachusetts, have invented an Improvement in Infants' Bands, of which the following description, in connection with the accompanying drawings, is a specification, like letters on the drawings representing like parts.

This invention relates to underclothing and pertains more particularly to an infant's "band," so-called, having improved provision for attachment of a diaper or the like.

The character of the invention may be best understood by reference to a specific illustrative embodiment shown in the accompanying drawing, in which,—

Figure 1 is a front elevation of an infant's band embodying the invention; Fig. 2 is a side elevation thereof; Fig. 3 is an enlarged front elevation of a flap for attachment of the diaper or the like; and Fig. 4 is a detail section, on the line 4—4 of Fig. 3.

Referring to the drawing, the garment comprises preferably a cylindrically knitted body portion 5, having its upper and lower extremities secured against raveling in any practicable manner, as by having an over-stitched binding 6—6. The body portion 5 may be equipped with any suitable means for supporting it in position, as the shoulder straps 7—7, which, as illustrated, pass over the shoulders of the wearer. Each of the straps 7—7 is preferably secured, front and rear, to the upper, bound edge 6 of the body portion 5. The body portion 5 has provision for the attachment of a diaper or other nether garment; and the same may be conveniently provided on depending flaps 8—8. Preferably there are two of these flaps, positioned near the middle of the garment at front and rear. Each of the specific illustrative flaps 8—8 comprises two thicknesses of material (see Fig. 4), placed face to face; and bound at their upper edges to an edge of the body member 5. The attachment of the flap 8 to the body member 5 may be effected in any practical manner; and it is preferably such that the stitching or the like by which the two are connected, serves also to bind the respective edges thereof against raveling, as illustrated at 9 in Fig. 4. Preferably, also, the edges of the

two flap pieces are bound together against raveling as at 10 in Fig. 3.

The general type of infant's band hereinbefore described, except for details of construction, has been used prior to my invention; and the flaps, or other garment-supporting portions thereof, have been used to receive a safety pin or the like, whereby the diaper or other garment is attached thereto. The frequent removal and replacement of nether garments, involved repeated insertion and withdrawal of the safety pins or other attaching means; and the pins were rarely if ever inserted twice, in the same place, this tending of course to very destructive wear upon the garment-supporting portion of the band; and in consequence said portion would, in use, deteriorate much more rapidly than the other parts of the band, which receive comparatively little wear. To avoid this difficulty, the present invention contemplates the provision of special means for preserving an infant's band or the like from such destructive wear, so that the garment-supporting portion, and therefore the band as a whole, may have a much prolonged period of utility. To illustrate this feature of the invention, I have shown two pin-receiving eyelets 11, 11. As shown in Fig. 4, each of these eyelets may consist of an aperture extending through both of the flap members and suitably reinforced at its edges so as to supply a strong bearing to support the pull of the pin. Each eyelet 11 may be buttonhole-stitched; and the stitches preferably engage both of the flap members and bind them firmly and strongly together. The eyelets 11, 11, or their equivalents, may be duplicated on the front and rear flaps 8—8, or on such other part of the body portion 5 as may constitute the garment-supporting part thereof. The safety pin or other garment-supporting means may be passed through the eyelets 11, 11; and thereby the strains upon said pin will be transmitted through the buttonhole-stitching or the like to a wide area of the surrounding material.

When a two-part flap, or other garment-holding portion, is used, with the eyelet reinforcement binding the two parts together, the distribution of the strains of the pin is even wider, since the several wales of one part are bound together with the corresponding wales of the other part, and the

two groups combined to give very desirable strength for the support of the pin.

The binding together of neighboring wales, by means of the buttonhole-stitching or an equivalent reinforcement, causes the pin to exert an oblique strain upon some of the wales, for instance, those adjacent the horizontal extremities of the reinforcement. This oblique strain is transmitted as a transverse pull upon still other intermeshing wales; and thus the strain from two or more eyelets is distributed throughout substantially the entire flap or other garment-supporting portion of the band. Since substantially the entire flap contributes thus to the support of the pin, it follows that the pulls thereon are transmitted to the body portion 5 throughout substantially the width of the attached edges of the flap and body portion, whereby the latter is relieved from such localized distortion as resulted from straining only one or two adjacent wales in the absence of an eyelet or the like. Also, it follows that the strains are distributed and taken up by the body portion, not only vertically but also obliquely, so that they are sustained by the resulting lateral contraction of the band on the body of the wearer, as well as by the shoulder straps or their substitute.

It is to be understood that the invention

is not essentially limited to the particular details of construction hereinbefore described. It is not indispensable that all the features of the invention be used conjointly, since they may be used to advantage separately.

Claim:

An infant's band comprising, in combination, a cylindrical elastic body portion (5) of circularly-knit fabric having its edges bound; and knitted separate flaps (8, 8) having bound upper edges with extensive attachment to the bound lower edges of the body portion, each flap comprising a plurality of thicknesses of knitted material having a pair of eyelets (11) binding together a large number of wales of each flap thickness and binding together also the plurality of flap thicknesses whereby strains upon the eyelets are transmitted divergingly to a large number of wales of the knitted flap thicknesses and thence to the extensive bound attachment between the flap thicknesses and the cylindrical body portion.

In testimony whereof, I have signed my name to this specification in the presence of two subscribing witnesses.

JOSEPH B. THORPE.

Witnesses:

I. R. POWER,
C. P. MARSHALL.