Apr. 24, 1923. 1,452,998

S. D. BOWERS

ELBOW CUFF

Filed Aug. 3, 1921

Fig 1

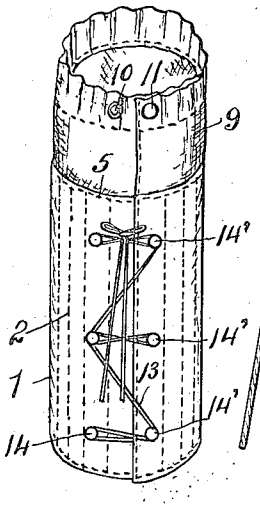



Fig 2

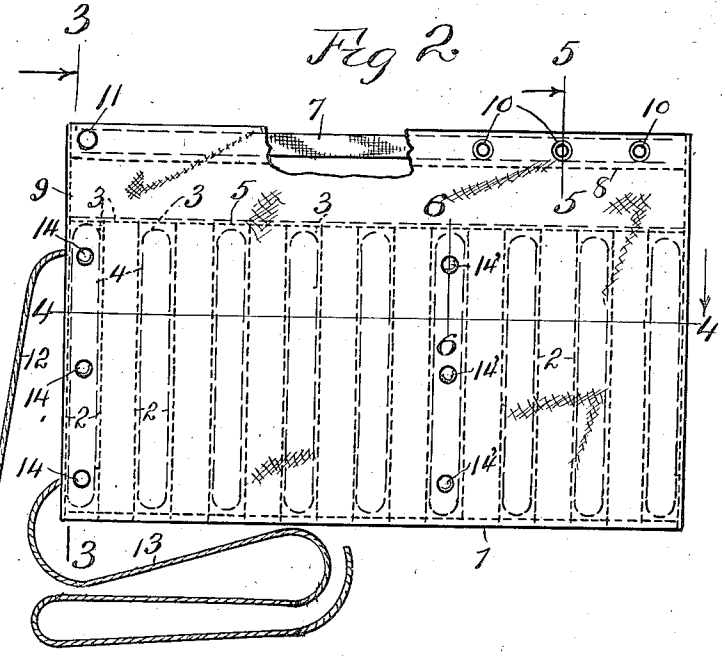



Fig 3

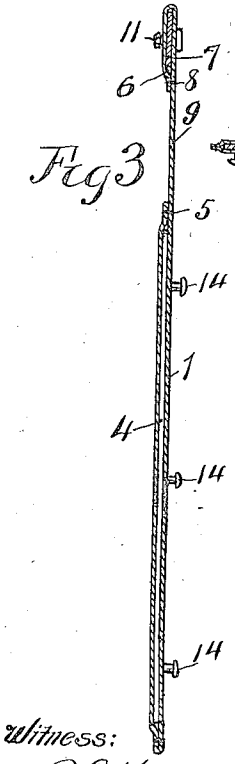



Fig 4

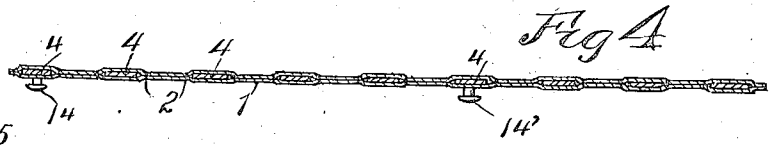



Fig 5

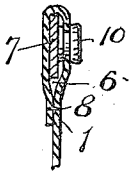
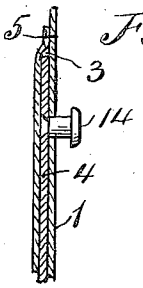



Fig 6




Witness:

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Patented Apr. 24, 1923. 1,452,998

# UNITED STATES PATENT OFFICE.

SALLIE DAVIS BOWERS, OF KANSAS CITY, MISSOURI.

## ELBOW CUFF.

Application filed August 3, 1921. Serial No. 489,418.

*To all whom it may concern:*

Be it known that I, SALLIE DAVIS BOWERS, a citizen of the United States, residing at Kansas City, in the county of Jackson and State of Missouri, have invented a certain new and useful Improvement in Elbow Cuffs, of which the following is a specification:—

My invention relates to improvements in elbow cuffs.

The object of my invention is to provide a novel elbow cuff adapted to embrace the elbow of a child to hold the arm from bending at the elbow sufficiently to enable the child to suck its fingers or to bite its finger nails.

A further object of my invention is to provide an elbow cuff which is simple, cheap to make, which is adapted to be laundered, which is durable, and which may be readily applied to or removed from arms of different sizes, and which will be held reliably in its operative position.

The novel features of my invention are hereinafter fully described and claimed.

In the accompanying drawing which illustrates the preferred embodiment of my invention,

Fig. 1 is a perspective view of my improved cuff, shown in the overlapped position.

Fig. 2 is a plan view, partly broken away, of the cuff shown stretched out.

Fig. 3 is an enlarged vertical section on the line 3—3 of Fig. 2.

Fig. 4 is an enlarged horizontal sectional view on the line 4—4 of Fig. 2.

Fig. 5 is an enlarged sectional view on the line 5—5 of Fig. 2.

Fig. 6 is an enlarged sectional view on the line 6—6 of Fig. 2.

Similar reference characters designate similar parts in the different views.

The body of the cuff comprises, preferably, a flexible sheet 1, the lower portion of which is doubled, the doubled portions being attached together by a plurality of longitudinal spaced apart seams 2, which form a plurality of longitudinal pockets 3 in alternate ones of which are located respectively substantially rigid longitudinal ribs 4, comprising, preferably, stiff flat substantially unyielding metal plates, each of which has rounded ends.

The doubled portions of the body 1 after the insertion of the ribs 4 into the pockets 3 are attached together by a transverse seam or stitching 5.

As shown in Figs. 2 and 5, the body 1 adjacent to its upper edge is provided with a transverse pocket 6 in which is mounted resilient elastic means, such as an elastic rubber band 7. The pocket 6 is preferably formed by folding over the upper end of the body 1 and attaching it to the body by stitching 8.

The upper ends of the ribs 4 are spaced apart a considerable distance from the upper end of the cuff, whereby the cuff has a flexible upper portion 9 which is adapted to embrace the arm of a child above the elbow.

The lower portion of the body in which are located the rigid stiffening ribs 4 is adapted to embrace the elbow, when the sheet like body is formed into a tube, as shown in Fig. 1, with its ends overlapping such distance as is required by the size of the arm which the cuff embraces.

For releasably attaching to each other the overlapping portions of the flexible upper portion 9 of the cuff, any suitable means may be employed. In the drawing I have shown attached to the body 1 adjacent to the upper end thereof a transverse row of socket members 10, either of which is adapted to releasably engage the head of a member 11 fastened to the body member 1 adjacent to its upper edge and to one side edge. The members 10 and 11 comprise the usual members such as are employed for glove fasteners.

For releasably fastening together the portion of the body which embraces the elbow, suitable means may be employed. In the drawing, for this purpose is illustrated two strings 12 and 13 attached at one set of ends to one side edge of the body 1, respectively adjacent to the upper and lower ends of the adjacent rib 4. The said adjacent rib 4 has rigidly mounted in it a vertical row of rivets 14, the heads and shanks of which extend through the outer portion of the body 1.

At a substantial distance from the opposite side edge of the body 1 in one of the intermediate ribs 4, are attached in a similar manner headed rivets 14′ which also extend through the outer portion of the body 1.

In fastening together the overlapping portions of the body with the strings 12 and 13,

the string 13 is laced around the rivets 14 and 14', after the manner of lacing a corset, and as shown in Fig. 1, the upper end of the string 13 being tied to the string 12.

In applying the cuff to a child's arm, the body 1 is overlapped around the arm at the elbow, with the ribs 4 extending across the elbow joint and with the flexible portion 9 disposed above the elbow. The head of the member 11 is then engaged with the adjacent socket member 10, the elastic band 7 being stretched so that the cuff tightly embraces the arm above the elbow. The string 13 is then laced and fastened to the string 12 in the manner described, so that the longitudinally stiffened portion of the cuff will tightly embrace the elbow, the lower end of the cuff being extended below the elbow so as to prevent the child bending its arm sufficiently to permit it to suck its fingers or bite its finger nails.

I do not limit my invention to the structure shown and described, as many modifications, within the scope of the appended claims may be made without departing from the spirit of my invention.

What I claim is:—

1. An elbow cuff comprising a flexible sheet adapted to be formed into a tube arranged to embrace the arm above and around the elbow, the upper portion of the sheet having overlapping portions and having means for fastening together said overlapping portions, elastic means provided along the upper edge of the sheet, longitudinal stiffening means attached to that portion of the sheet which embraces the elbow, and means for fastening together overlapping portions of that portion of the sheet which embraces the elbow, substantially as set forth.

2. An elbow cuff comprising a flexible sheet like body arranged to embrace the arm at and above the elbow and to have its ends overlap each other, releasable means for fastening together the overlapping portions in different positions of overlap, the body adjacent to its upper edge having mounted therein an elastic band adapted to embrace the arm above the elbow, and substantially rigid longitudinal spaced apart ribs mounted in the body in that portion which is adapted to embrace the elbow, substantially as set forth.

3. An elbow cuff comprising a flexible sheet like body adapted to be formed around an arm above and across the elbow and to have its ends overlap, and having adjacent to its upper edge a transverse pocket, and provided below said pocket with spaced apart longitudinal pockets, elastic means mounted in said transverse pocket substantially rigid ribs respectively mounted in the longitudinal pockets, and releasable means for fastening together in different positions the overlapping portions of said body, substantially as set forth.

In testimony whereof I have signed my name to this specification.

SALLIE DAVIS BOWERS.