

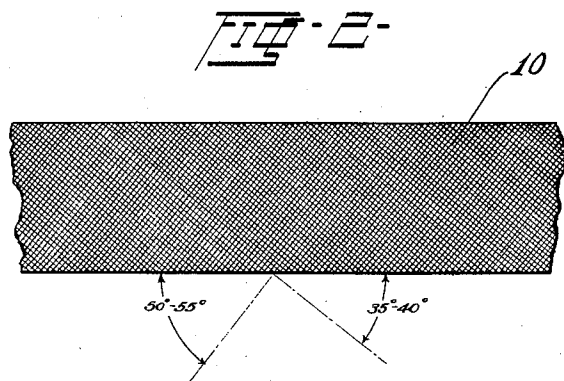
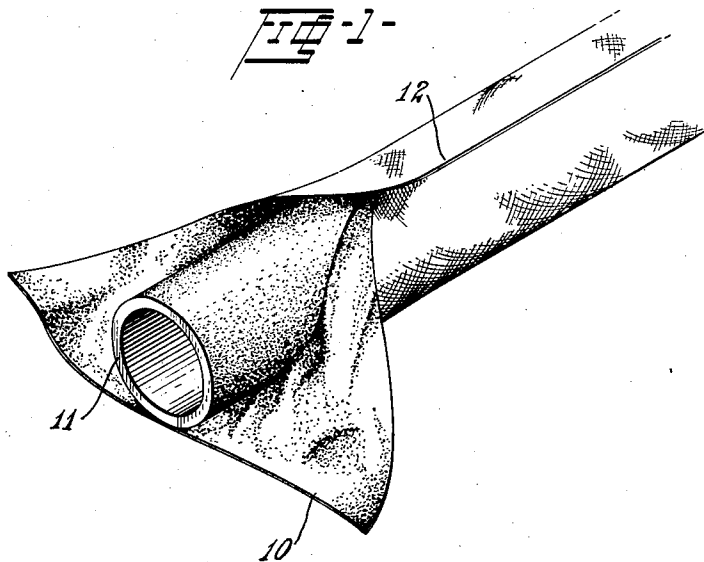
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FABRIC COVERED STRIP MATERIAL AND METHOD OF MAKING THE SAME

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FABRIC-COVERED STRIP MATERIAL AND METHOD OF MAKING THE SAME.

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This invention relates to fabric coverings for strip material such as rubber tubes and to methods of applying the same, and is particularly applicable to applying bias-cut fabric coverings to small rubber tubes such as are used in player pianos, wherein the covering fabric is of such light weight that, as heretofore applied, it has been difficult to apply to the tube with a uniform lapped seam, because of its great stretchability in a longitudinal direction, causing it to shrink unevenly cross-wise and to curl at the margins in the operation of applying it longitudinally and wrapping it laterally about the tube.

The chief objects of my invention are to provide an improved method of applying a bias fabric covering strip to strip material and to provide a fabric covered strip material in which the fabric shall tightly and smoothly fit about the material.

Of the accompanying drawings:

Fig. 1 is a perspective view, on a large scale, of one end of a rubber tube and a cover-strip in the process of application thereto in accordance with my invention.

Fig. 2 is a plan view, on a large scale, of a length of cover strip material prepared in accordance with my invention.

Briefly my invention comprises so bias-cutting a narrow cover-strip of square-woven fabric that the threads therein as to one set, lie at substantially less than the usual angle of 45° to the longitudinal edge of the strip, so as to reduce the longitudinal stretchability of the strip, and I find that this solves the problems of manipulation above referred to and yet provides sufficient flexibility in the covered tube.

Referring to the drawings, particularly Fig. 2, it will be seen that the cover-strip consists of square-woven fabric, bias-cut as described, one of its sets of threads being disposed at an angle greater than 45 degrees with relation to its respective margins, and the other series at an angle of less than 45 degrees thereto. In practice, I have obtained most satisfactory results when the respective series of threads lie at angles of 50 to 55

degrees and 35 to 40 degrees to the margins of the strip.

Strips constructed according to my invention are cut, at the proper bias angle, from a length of wide fabric in the usual manner, and when used to cover flexible rubber material, are preferably cut from fabric which has been friction coated with rubber on both sides. Such a strip is shown, in Fig. 1 of the drawing, wrapped laterally around a rubber tube 11, the latter having a coating of suitable cement to improve the adhesion of said strip.

Such strips will not excessively elongate longitudinally and contract laterally when under such tension as is incidental to their mechanical manipulation, so that when they are applied to an article such as the tube 11, the overlap of the strip, shown at 12 in Fig. 1, will be uniform and of sufficient width.

I claim:

1. In combination, flexible cylindrical tubing, and square-woven, bias-cut fabric snugly covering said tubing and adhered thereto, one set of threads of said fabric being disposed at an angle of 35 to 40 degrees to an element of the said tube.

2. In combination, flexible rubber tubing, and woven, bias-cut fabric snugly covering said tubing and adhered thereto, the said fabric overlapping in a seam extending longitudinally of the tubing and having its respective warp and weft threads disposed at materially different angles to the longitudinal seam.

3. In combination, generally rectilinear strip material, and square-woven, bias-cut fabric tape covering said material in close contact therewith, the edges of said tape forming a seam extending longitudinally of said material, one set of threads of said fabric tape being at an angle materially less than 45 degrees to the lateral edges of said tape.

4. The method of covering strip material with rubberized fabric which comprises cutting a strip of square-woven rubberized fabric of sufficient width to circumscribe the strip material and at an angle of materially

less than 45 degrees to one set of the threads therein, and applying the said strip under tension longitudinally to and wrapping it laterally about the strip material.

5. The method of covering tubing with rubberized fabric which comprises cutting a strip of square-woven rubberized fabric of sufficient width to circumscribe the tubing,

so that the lines of cut intercept either the warp or weft threads of the fabric at an angle materially less than 45 degrees, and applying the said strip longitudinally to and wrapping it laterally about the tubing.

In witness whereof I have hereunto set my hand this 18th day of March, 1924.

ABRAM E. FALOR.