Dec. 18, 1928. 1,695,821

C. RESTEIN

PACKING AND METHOD OF MAKING THE SAME

Filed March 18, 1924

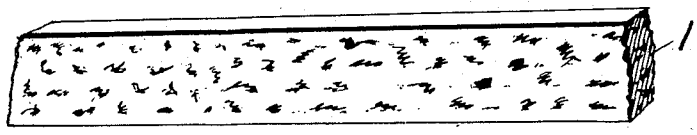


FIG. 1.

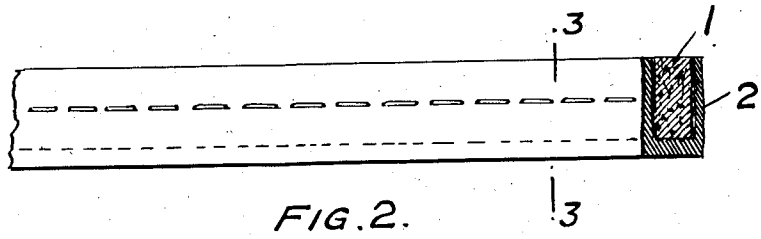


FIG. 2.

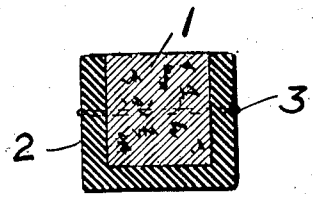


FIG. 3.

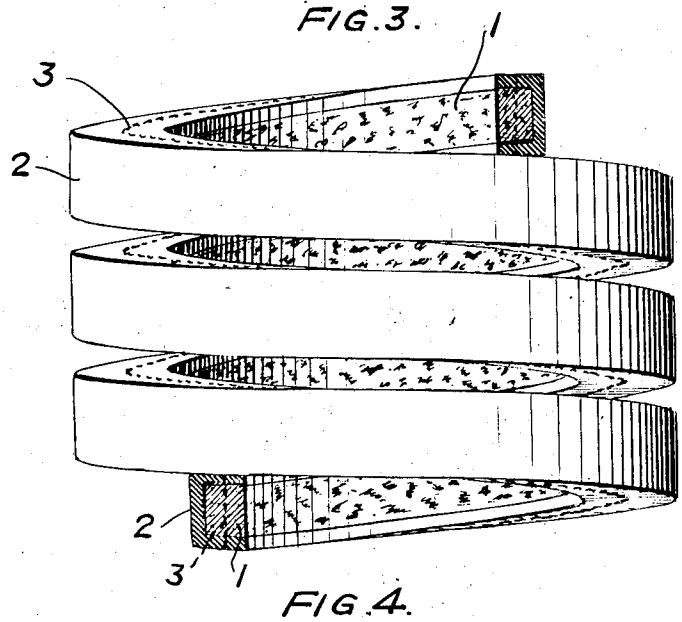


FIG. 4.

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UNITED STATES PATENT OFFICE.

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PACKING AND METHOD OF MAKING THE SAME.

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A packing consisting of a cork strip and a flexible channeled strip hugging the cork strip on three sides is possessed of great durability, efficiency and other desirable qualities. However, to commercially obtain such a packing in the curved form required by conditions of use presents difficulties of which the following may be mentioned:

A straight strip of cork when dry is so brittle that it cannot be brought into curved form without undue fracture or rupture, and if wet or steamed, in order to bend it, it is not accurate in cross-sectional size when thereafter dry, and this is true even when a strip of cork is arranged in the channel of a channeled strip.

The principal object of the present invention is to provide for the commercial and satisfactory production of packing of the kind referred to and which consists of a cork strip and a flexible channeled strip hugging the cork strip on three sides, and to that and other ends hereinafter set forth the means embodying the invention comprise a line of stitching extending through both strips whereby curved form can be imparted to the cork strip even in dry condition and a vulcanizable compound or component in the channeled strip whereby the channeled strip can be set or vulcanized in curved form to hold the cork strip in the curved form imparted to it.

The invention also comprises the improvements to be presently described and finally claimed and in the description reference will be made to the accompanying drawings forming part hereof and in which

Figure 1 is a view of a strip of cork.

Fig. 2 is a view showing a line of stitching extending through both the cork strip and a channeled strip of vulcanizable fabric as duck or asbestos and rubber.

Fig. 3 is a transverse sectional view taken on the line 3—3 of Fig. 2 drawn to an enlarged scale, and

Fig. 4 is a view of the finished packing in curved or spiral form.

In the drawings 1 is a straight strip of cork. 2 is a flexible channeled strip hugging the cork strip on three sides. The strip 2 consists of fabric. According to my invention there is a line of stitching 3 that extends through the cork strip 1 and the side walls of the channeled strip 2, and the channeled strip contains a vulcanizable component, as rubber, and also a suitable fabric, as asbestos or layers of duck.

The line of stitching 3 in the final product performs the function of holding the walls of the channeled strip 2 in substantial parallelism against the force exerted by the reciprocating rod.

The bending force applied to bring it from the straight form shown in Fig. 2, as around a mandrel, to curved form is distributed throughout the cork strip by reinforcing it with the channeled strip of flexible vulcanizable material stitched thereto, and then vulcanization of the bent flexible channeled strip preserves the curved form of the cork strip.

It will be obvious to those skilled in the art that modifications may be made in details of construction, arrangement, procedure and matters of mere form without departing from the spirit of the invention which is not limited as to such matters or otherwise than as the prior art and the appended claims may require.

I claim:

1. Means for imparting curved form to a packing consisting of a cork strip and a flexible channeled strip hugging the cork strip on three sides which comprise a line of stitching extending through both the cork strip and the confronting walls of the channeled strip whereby circular form can be imparted to the cork strip even in dry condition, and a vulcanizable component for the channeled strip whereby it can be set in curved form to hold the cork strip in the curved form imparted to it.

2. In the manufacture of cork packing of ring form the improvement which consists in distributing the bending force throughout the cork strip by stitching it to the confronting walls and reinforcing it with a channeled strip of flexible vulcanizable material, and vulcanizing the bent flexible strip to preserve the ring form of the cork strip.

CLEMENT RESTEIN.

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