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R. WHITAKER, JR.

METHOD OF ATTACHING A RUBBER BODY TO ANOTHER BODY.

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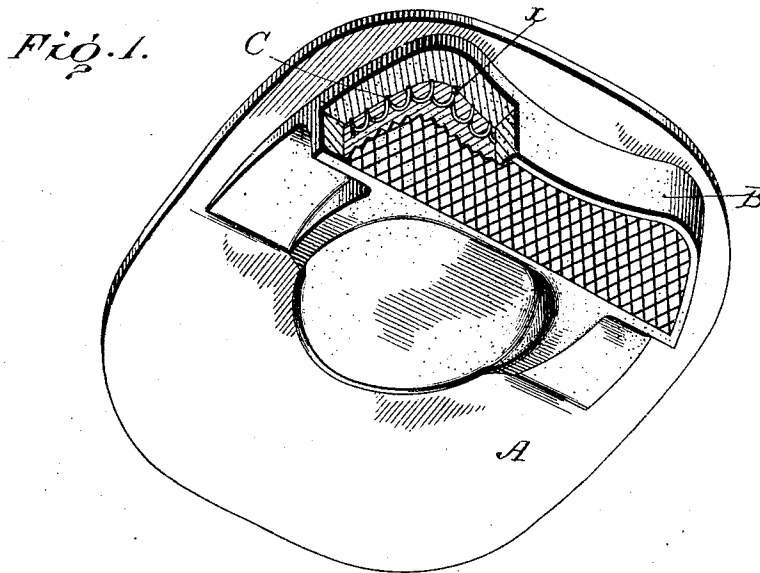
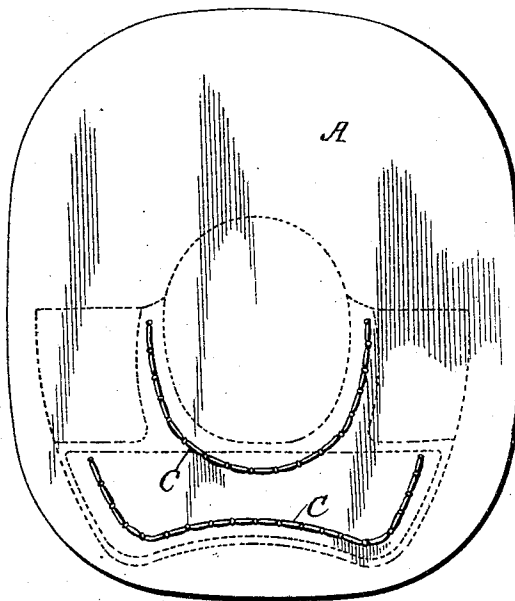


Fig. 2.



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METHOD OF ATTACHING A RUBBER BODY TO ANOTHER BODY.

No. 797,035.

Specification of Letters Patent.

Patented Aug. 15, 1905.

Application filed January 10, 1905. Serial No. 240,447.

To all whom it may concern:

Be it known that I, RICHARD WHITAKER, Jr., a citizen of the United States, residing at New Brunswick, in the county of Middlesex and State of New Jersey, have invented certain new and useful Improvements in Methods of Attaching a Rubber Body to Another Body, of which the following is a specification.

This invention was devised more especially to improve the manufacture of horseshoe-pads; but it is susceptible of general application wherever rubber and another substance or substances are to be united by sewing.

Objects of the invention are to provide a comparatively inexpensive, efficient, and durable pad of neat appearance; to strengthen the bond between the component parts of the pad, and to provide a sewed rubber pad where of the stitches are embedded in and made an integral part of the rubber.

The nature, characteristic features, and scope of the invention will be more readily understood from the following description, taken in connection with the accompanying drawings, forming part hereof, and wherein—

Figure 1 is an inverted perspective view of a horseshoe-pad embodying features of my invention, a portion of the pad being cut away at *x* to show the stitches; and Fig. 2 is a top view thereof.

In said drawings, A represents the upper or supporting face, which may be leather, canvas, or any other suitable material, and B represents the wearing-face, which is of rubber.

In the practice of the invention the rubber pad or wearing-face B, while still comparatively soft or unvulcanized and easy of penetration, is applied to the part A and sewed in the ordinary manner, the usual lock-stitch being employed. During this operation, owing to the "plastic" condition, so to speak, of the rubber, the same is penetrated by the loops or locks C of the stitches, and by adjusting the tension the locks of the stitches can be located, as desired, below the surface of the rubber. It should be apparent that as the stitches penetrate the rubber the latter closes over and entirely conceals them on the wearing side of the pad, as shown in Fig. 1.

After the sewing is finished the rubber is vulcanized, and the thread becomes thereby an integral part of the rubber. In the old method of sewing pads the needle made a hole much larger than the thread, so that the strain was thrown on the top and bottom locks. In the present method the cement, wax, thread, and rubber when vulcanized become one integral whole, making it impossible to break or pull out a single stitch and distributing the strain throughout the body of the rubber.

It will be obvious to those skilled in the art to which the invention appertains that modifications may be made in details without departing from the spirit and scope of same. Hence I do not limit myself to the precise arrangement and construction of parts hereinabove described; but,

Having described the nature and objects of my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. The method of attaching two or more bodies whereof one consists of rubber, which consists in stitching them together and embedding the looped portion of the stitches wholly into the rubber body previous to vulcanization, substantially as specified.

2. The method of attaching two or more bodies whereof one consists of rubber, which consists in stitching them together and embedding the looped portion of each stitch wholly into the rubber body while the rubber is comparatively easy of penetration, and thereafter vulcanizing the rubber, substantially as specified.

3. The method of attaching two or more bodies whereof one consists of rubber, which consists in sewing them while the rubber is comparatively soft or easy of penetration and causing the stitches to become embedded in and covered by the rubber body, and thereafter vulcanizing the rubber, substantially as specified.

In testimony whereof I affix my signature in presence of two witnesses.

RICHARD WHITAKER, JR.

Witnesses:

FRANK E. FISHER,
GEO. F. McCORMICK.