(No Model.)

H. T. SIMMONS & J. P. NAYLOR.

IMPERMEABLE FACING FOR TROUSERS.

No. 416,186. Patented Dec. 3, 1889.

Fig. 1.

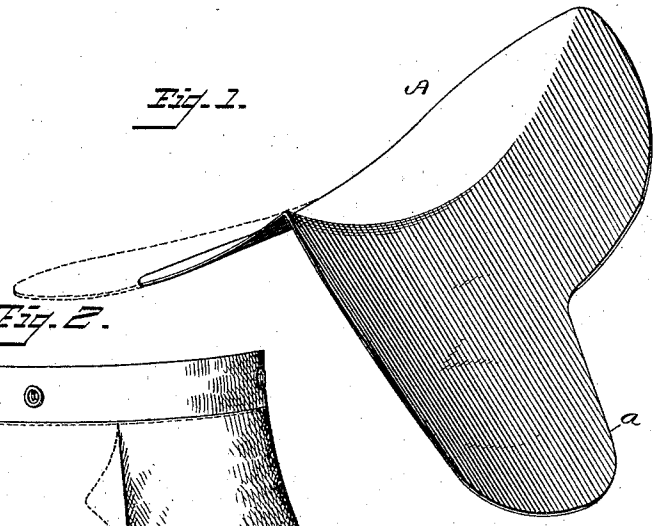


Fig. 2.

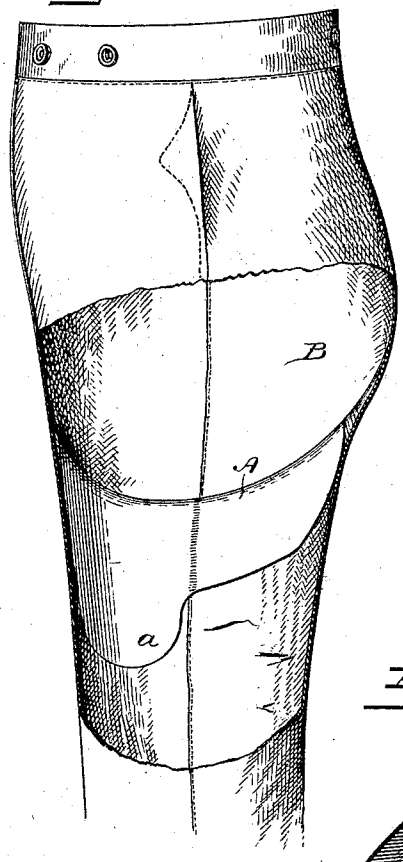


Fig. 3.

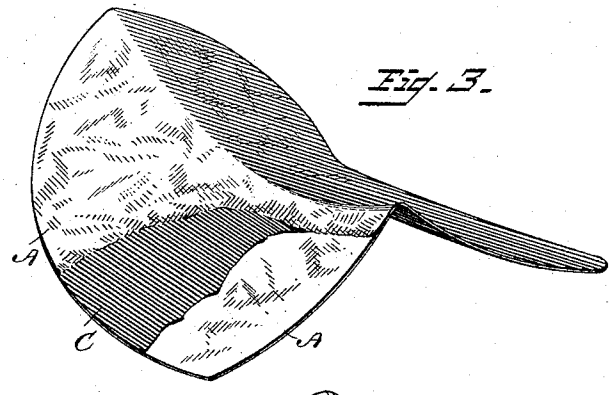
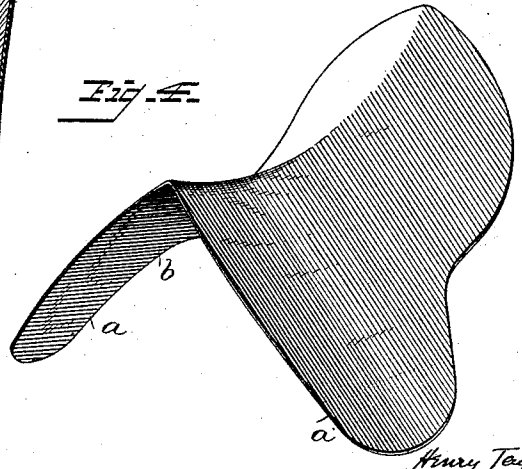


Fig. 4.



Witnesses
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UNITED STATES PATENT OFFICE.

HENRY TAYLOR SIMMONS AND JOSEPH P. NAYLOR, OF BLOOMINGTON, INDIANA.

IMPERMEABLE FACING FOR TROUSERS.

SPECIFICATION forming part of Letters Patent No. 416,186, dated December 3, 1889.

Application filed March 11, 1889. Serial No. 302,776. (No model.)

To all whom it may concern:

Be it known that we, HENRY TAYLOR SIMMONS and JOSEPH P. NAYLOR, both citizens of the United States, residing at Bloomington, Monroe county, State of Indiana, have invented new and useful Improvements in Impermeable Facings or Re-enforcements for Trousers, of which the following is a specification.

Our invention consists of a facing or re-enforcement made of impervious material and applied by means of an adhesive immediately to the crotch of the trousers on the inside, and thus made to adhere to the material of which the same are made, and having a prolongation adapted to be applied to the fore part of the trousers near the inside seam over the penis. The object of this prolongation is to protect the trousers from discoloration liable to occur in the particular location where it is applied in the case of old men and in certain diseases, and to prevent the rotting of the material due to the perspiration, urine, sweat, or other matters that may be exuded from the body.

In the accompanying drawings, which illustrate our invention, Figure 1 is a view of that form of impermeable facing which we prefer to use. Fig. 2 is a view of the same applied to the inside of a pair of trousers, and Figs. 3 and 4 show modifications of our invention.

A, Fig. 1, represents an impermeable facing shaped to conform to the crotch of the trousers and having a prolongation *a* to be applied to the fore part of the trousers on the inside near the inside seam, as shown in Fig. 2, in which B represents the trousers.

We make the facing or re-enforcement of any impervious material—such as rubber cloth, oil-silk, oil-cloth, or the like—and, having shaped it to the conformation of the crotch of the trousers, apply it by means of a cement interposed between it and the material of the trousers directly to the latter on the inside. We thus secure a perfect adhesion of all parts of the facing to the material of the trousers, and obtain thereby a close and neat fit, a freedom from wrinkles and an effective re-enforcement of the seams, the additional strength being far greater than that given by any mode of sewing the same, while any liability to rip or tear by the weakening or rotting of the stitches is entirely removed. It also greatly protects the trousers from wear in the crotch by slightly stiffening and holding in position that portion of the trousers, thus preventing the friction of the material rubbing against itself.

We prefer to make our impermeable facing of rubber cloth, which we apply to the inside of the garment by means of a thin strip of gutta-percha tissue of similar shape, causing the latter to adhere to the material and the facing to adhere to the gutta-percha tissue by pressing it with a hot iron. This form we have shown in Fig. 3, in which A represents the facing and C the gutta-percha tissue; but we may also use rubber cloth having an adhesive surface on one side, which is applied directly to the material; or, where the cement in itself impervious, we may merely cover it with stockinet or other like light material.

In Fig. 4 we have shown an impermeable facing or re-enforcement of rubber cloth having one side *b* adhesive, and in Fig. 3 the facing A may be constructed of stockinet or other like light material when the adhesive material C is impervious.

While we prefer the facing having the single strip, as shown in Figs. 1 and 2, we may also give it the shape shown in Fig. 4, in which there are two strips *a a*, fitted to the fore part of the trousers on the inside near the inside seam, and also shown in dotted lines in Fig. 1. We also prefer to make the facing of a single piece; but it can be made of two or more without departing from the spirit of our invention.

We do not confine ourselves to the particular outline of the impermeable facing or re-enforcement shown in the drawings, provided it is impermeable and adhesive on the side which is to be secured to the material, and is provided with a dependent strip *a*, adapted to be applied to the fore part of the trousers on the inside near the inside seam to protect the material from discoloration, sweat, perspiration, or urine; but

What we claim as new, and desire to secure by Letters Patent, is—

An impermeable facing or re-enforcement

adapted to fit over the crotch of the trousers on the inside, having a dependent strip *a*, adapted to be applied to the fore part of the trousers near the inside seam, and having an attachable inner adhesive surface, whereby the facing is made to adhere to the trousers, reenforcing all of the material in contact therewith, while protecting the latter from perspiration, sweat, or urine, substantially as described.

In testimony whereof we have hereunto set our hands in the presence of two subscribing witnesses.

HENRY TAYLOR SIMMONS.
JOSEPH P. NAYLOR.

Witnesses:
F. T. BRODIX,
L. W. PAULEY.