

No. 692,704.

Patented Feb. 4, 1902.

J. PFEIFFER.
RUBBER GLOVE.

(Application filed July 12, 1901.)

(No Model.)

Fig. 1.

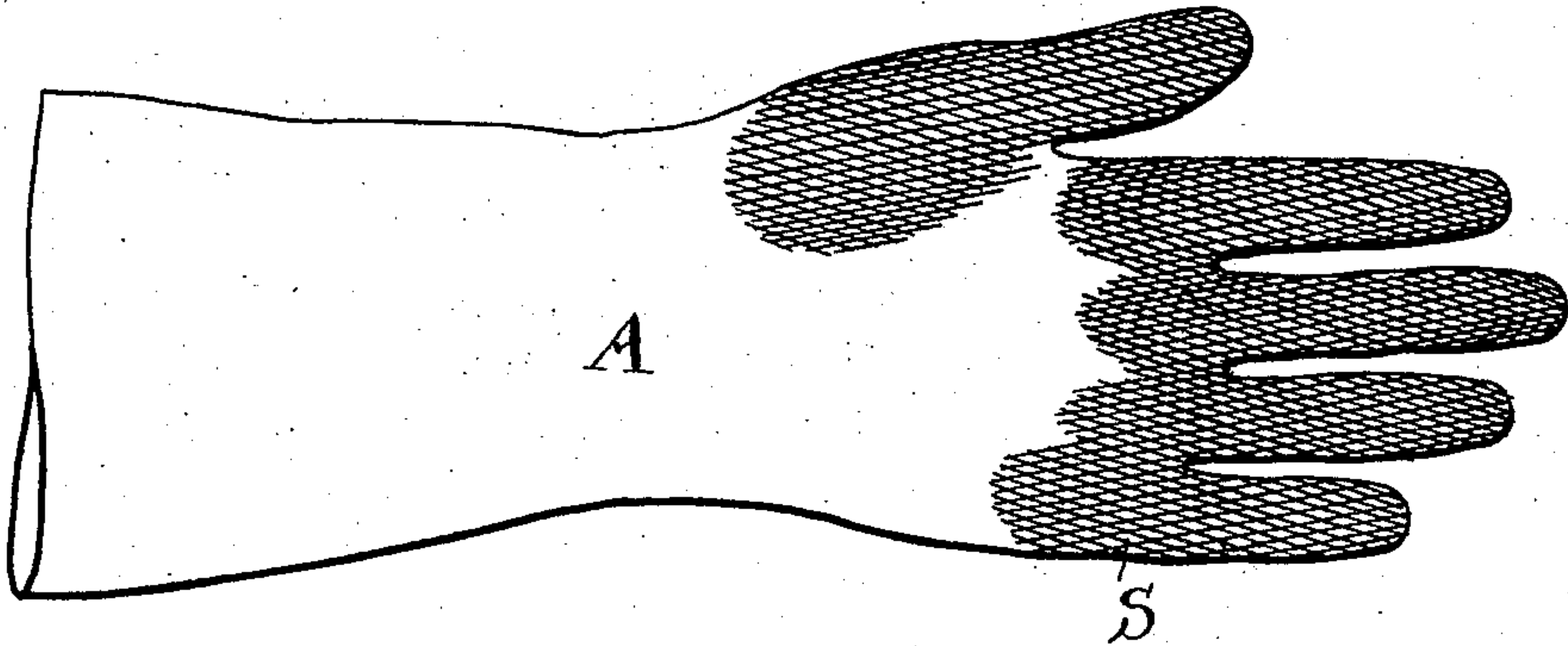


Fig. 2.

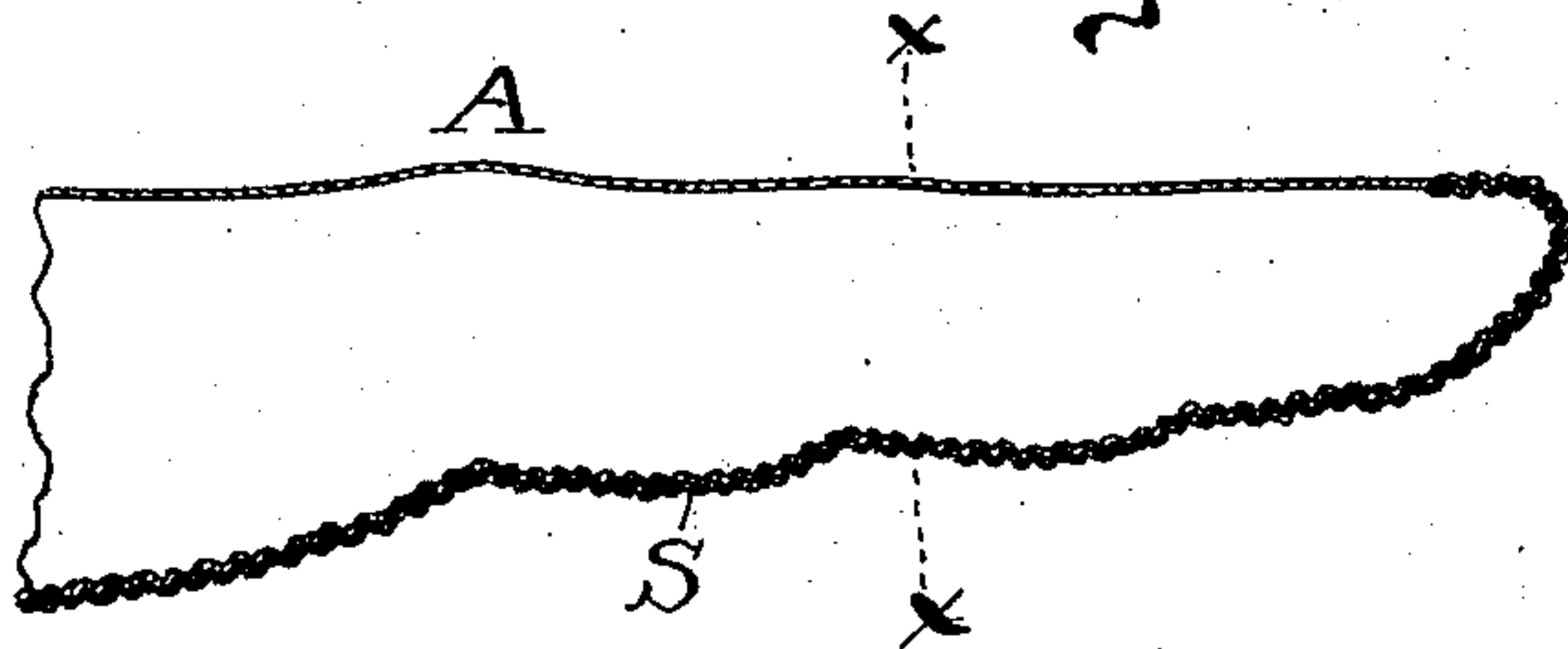
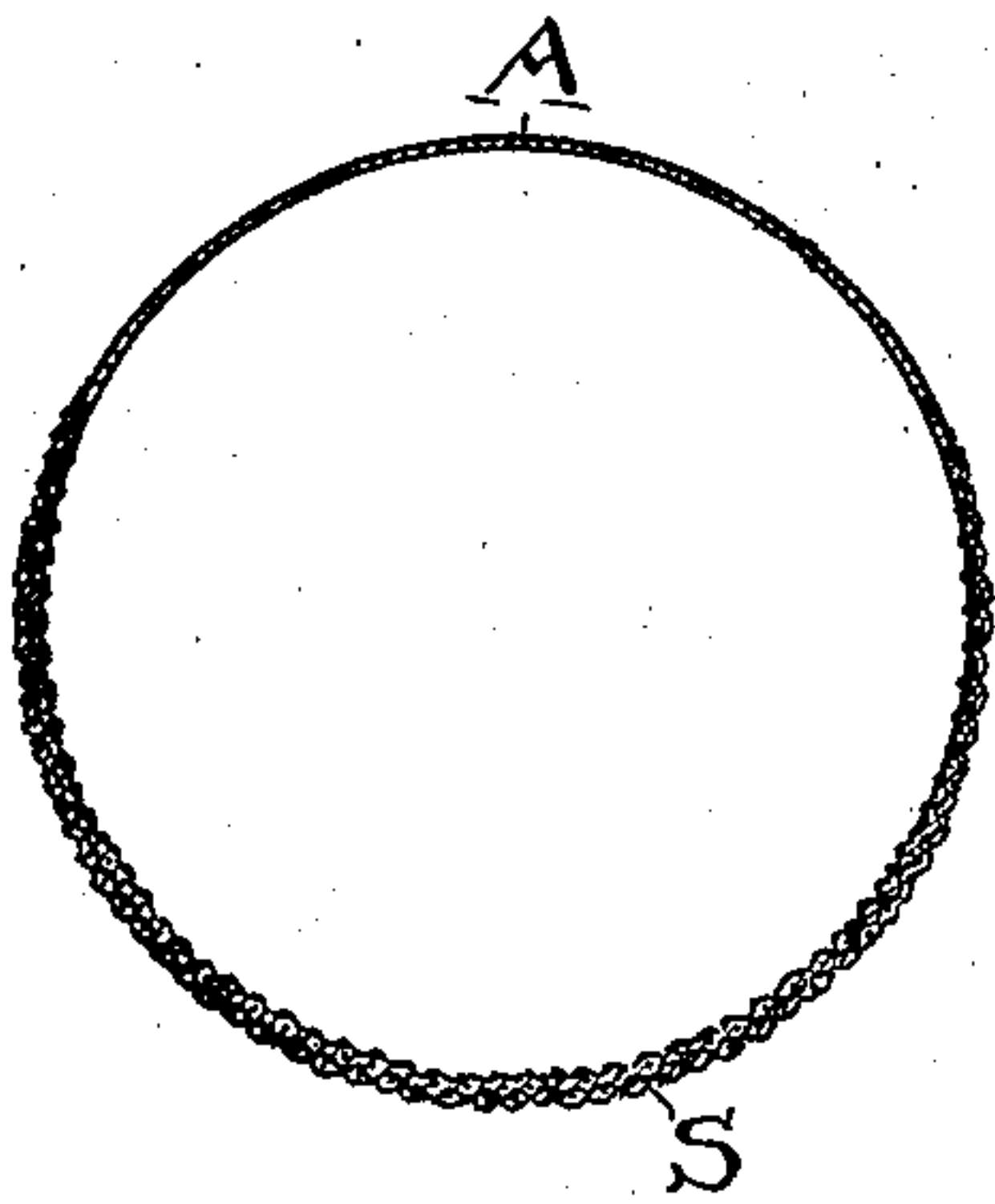


Fig. 3.



ATTEST

H. E. Mudra

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INVENTOR

Jacob Pfeiffer

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UNITED STATES PATENT OFFICE.

JACOB PFEIFFER, OF AKRON, OHIO.

RUBBER GLOVE.

SPECIFICATION forming part of Letters Patent No. 692,704, dated February 4, 1902.

Application filed July 12, 1901, Serial No. 68,060. (No model.)

To all whom it may concern:

Be it known that I, JACOB PFEIFFER, a citizen of the United States, residing at Akron, in the county of Summit and State of Ohio, have
5 invented certain new and useful Improvements in Rubber Gloves; and I do declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to
10 make and use the same.

My invention relates to rubber gloves; and the object of the invention is to furnish a glove especially designed for use by surgeons and physicians and which is provided with a
15 surface over the front of the fingers and thumb as nearly like the surface of the natural hand as is possible to produce mechanically.

In an all-rubber glove or gloves which are
20 formed only of pure rubber without a special body it has been found by actual experience that they are not well adapted to surgical work, where the surface of the glove becomes saturated with blood, or for the delicate ma-
25 nipulations of physicians, because the surface is too smooth and slippery. Hence the fingers lack the grip or hold which the natural hand possesses by reason of its very slightly ribbed or roughened surface and
30 without which even the natural hand would not be well suited to this kind of work. I have therefore sought to provide an otherwise all-rubber glove which will fit snugly upon the hand, as usual with what may be
35 termed a "grained" or very slightly "ribbed" surface, resembling most accurately the natural touch or surface on the working side of the bare or naked fingers. To this end I
40 fashion a glove out of pure rubber formed by dipping, as usual, forming an expansible all-rubber body, and when said glove is otherwise completed I place a layer or strip of silk fabric or its equivalent, which is non-expansible, upon the fore part of the fingers and
45 thumb, which is firmly cemented upon the adhesive surface of said fingers and can be coated or covered with rubber by dipping or otherwise, so that the silk itself becomes practically embedded in the rubber and is not itself
50 exposed. However, this embedding does not

lose to the glove the slightly ribbed or roughened surface sought for, and the result is that where the silk has been laid there is just enough unevenness of surface to obviate the
slippery smoothness of all rubber and to give
55 the hand a grip or hold which is so nearly like its natural grip that there is no material difference in operation.

Now referring to the drawings, Figure 1 shows a plain front elevation of a rubber
60 gauntlet-glove made after the manner of my invention. Fig. 2 represents a longitudinal sectional elevation of a finger much enlarged and with a wavy or corrugated bottom edge designed to illustrate a lengthwise section of
65 the finger and of course magnifying the idea of corrugation or unevenness of surface which the introduction of a silk fabric affords. Fig. 3 is a cross-section of a finger still more enlarged as compared with Fig. 1 and showing also an
70 exaggerated idea of the inlaid fabric.

As thus illustrated, A represents a pure-rubber glove made by dipping, as usual, and of any desired weight, and upon the working
75 faces of the fingers and thumb of this glove I place a suitable fabric strip S, preferably of silk and practically embedded in the surface of the rubber, as already described. A comparatively fine grade of silk not too
80 closely woven will serve my purpose, and I may also have made a special fabric for this use with exactly the mesh best adapted thereto, and the material is not necessarily con-
85 fined to silk, but may be a fine quality of linen or the like. However, in my present manufacture I am using silk exclusively. In
this instance I show the fabric as running
90 about two-thirds around the finger. It might for that matter be a narrow strip along the finger or extend entirely around and also
down over the palm of the hand. This, however, is a mere elaboration of the invention and is understood to be within the spirit of
the invention and claim as presented herein.

It will readily be seen that in addition to
95 the roughened touch which this construction of glove affords and which is so essential to have there is the further and material advantage of having the engaging or gripping surface of the glove inelastic or non-expansible.
100

Then when a grip is made it will hold and not run away, as occurs when the rubber stretches and surrenders the grip.

What I claim is—

- 5 A rubber glove having finger-fronts provided with non-expansible strips of fabric embedded in the rubber surface thereof, thus providing a glove with an expansible all-rub-

ber body and non-expansible finger-fronts, substantially as described. 10

Witness my hand to the foregoing specification this 26th day of June, 1901.

JACOB PFEIFFER.

Witnesses:

M. GARMAN,

JESSIE WILSON.