

(No Model.)

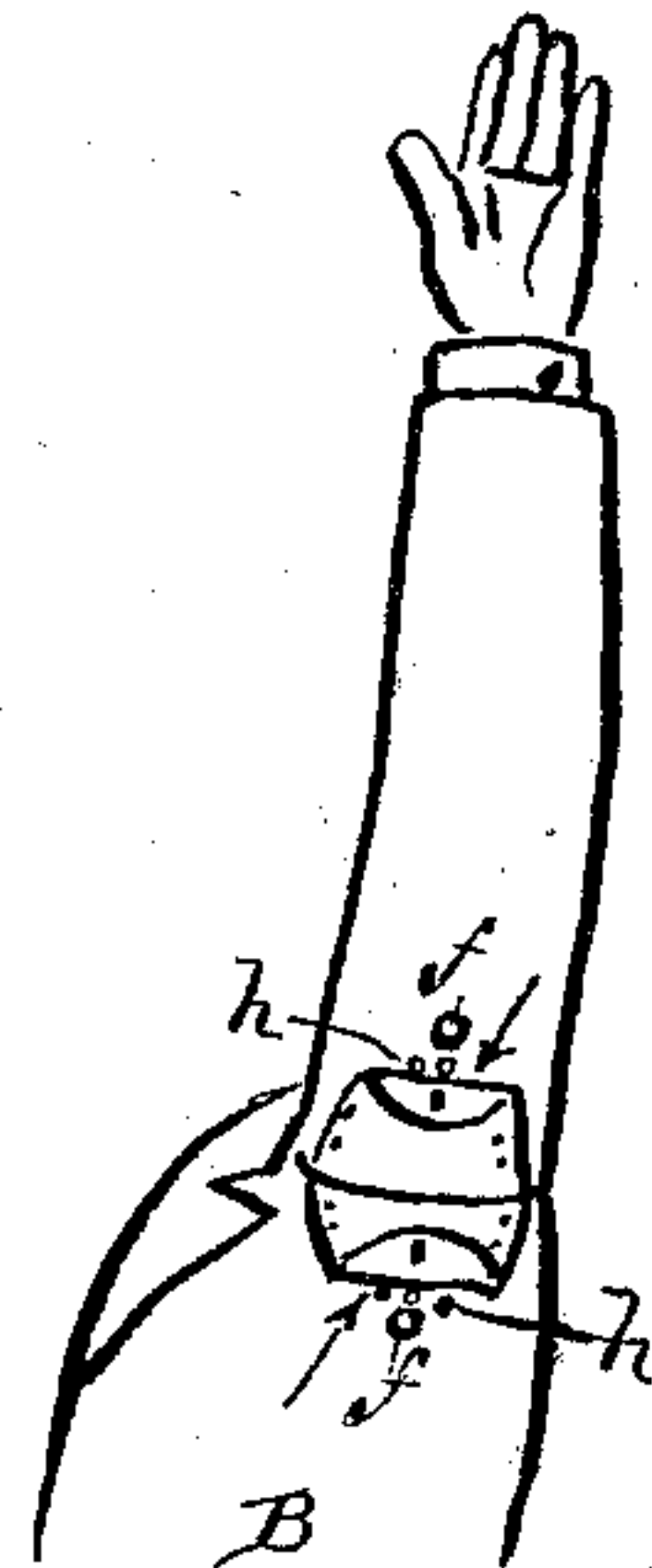
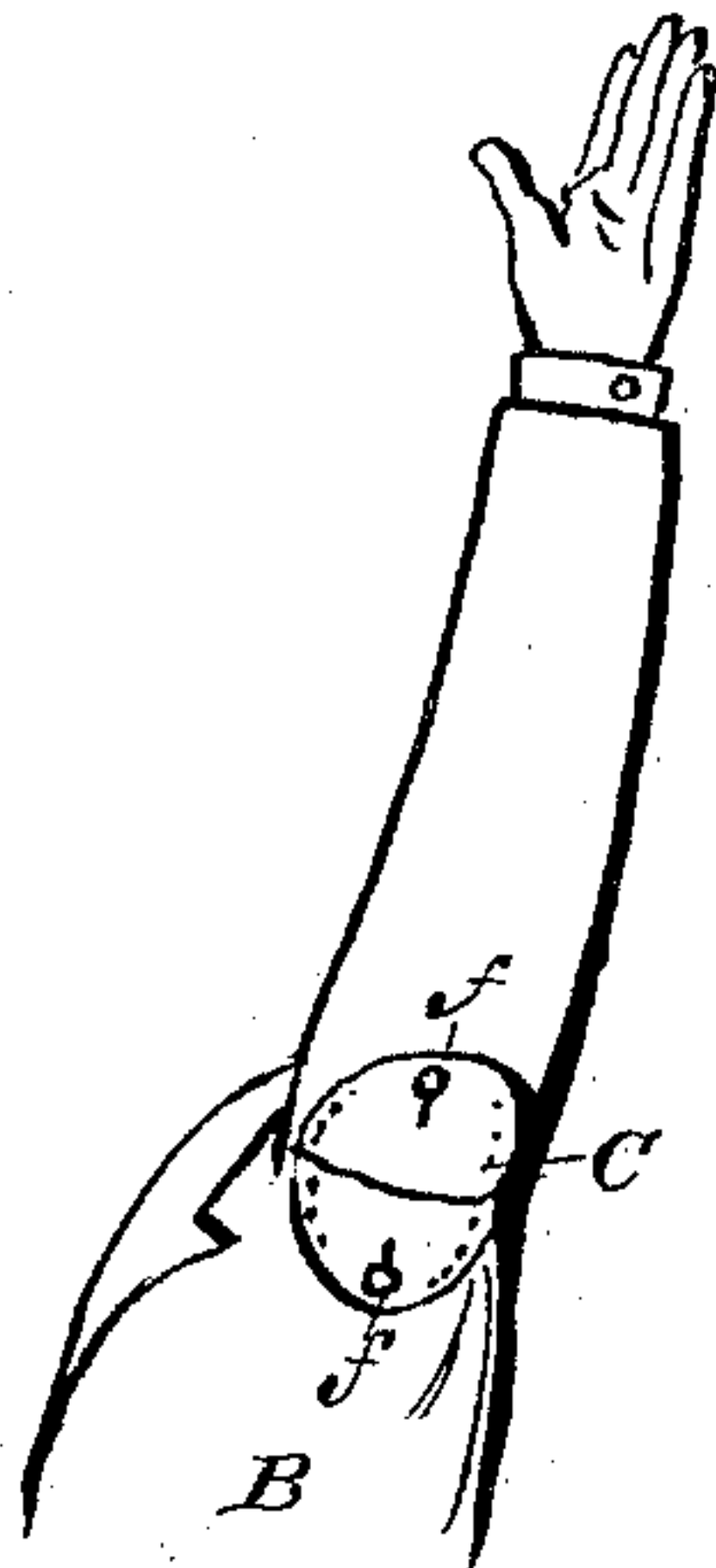
J. S. GOLDSMITH.  
VENTILATED GARMENT.

No. 397,543.

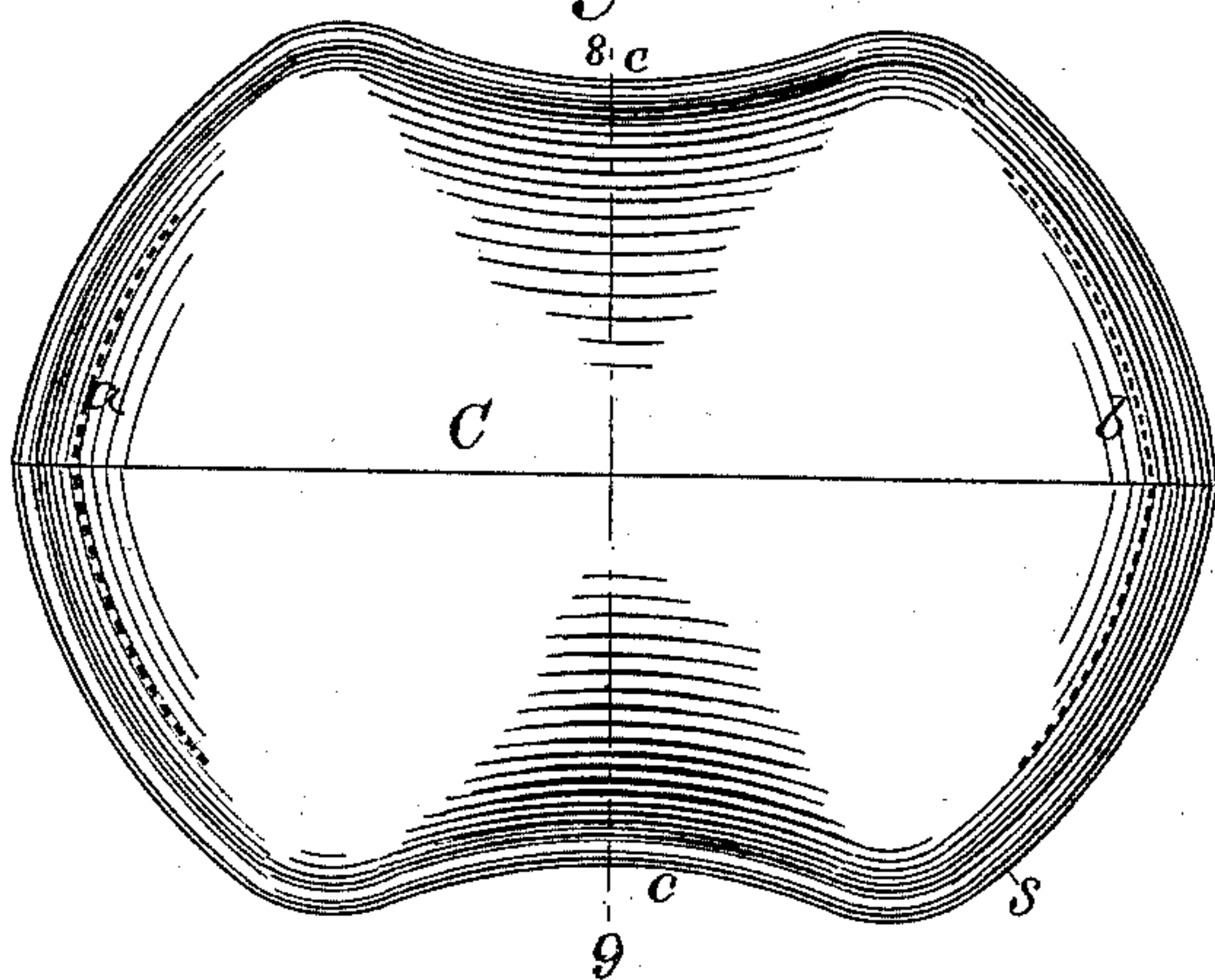
Patented Feb. 12, 1889.

*Fig. 5. Fig. 6.*

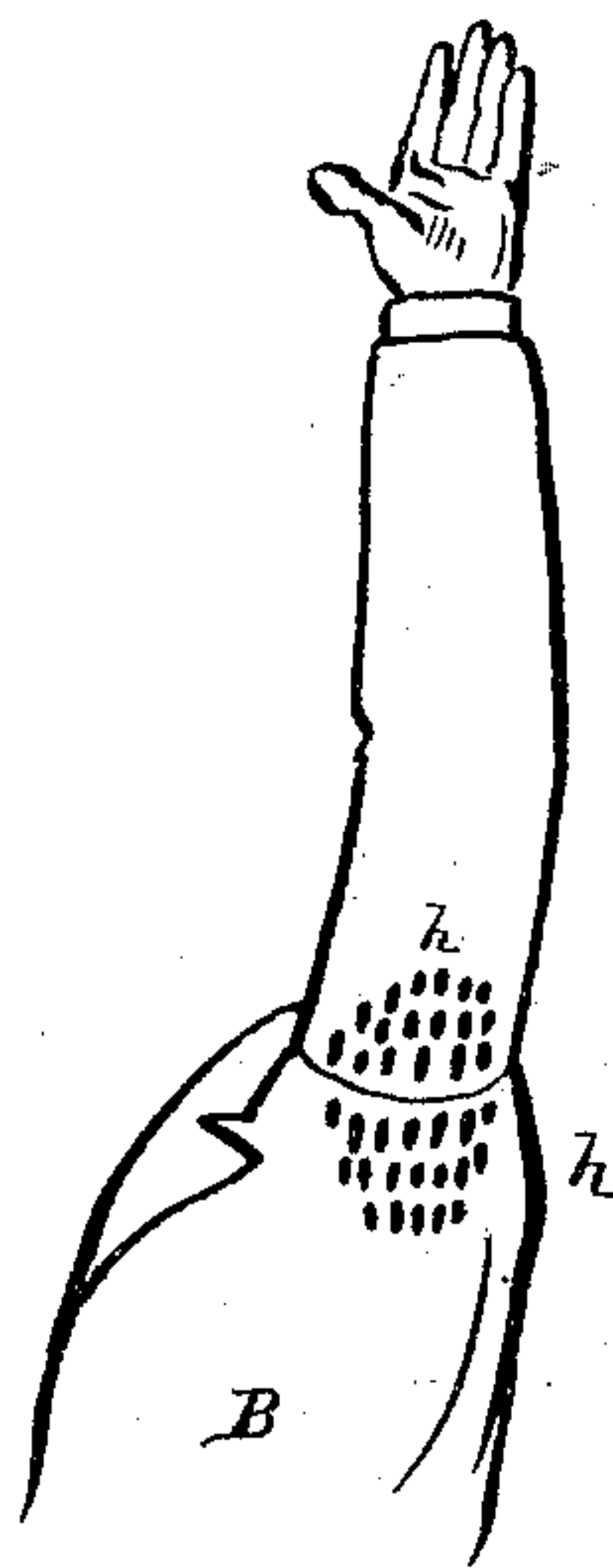
*Fig. 1.*



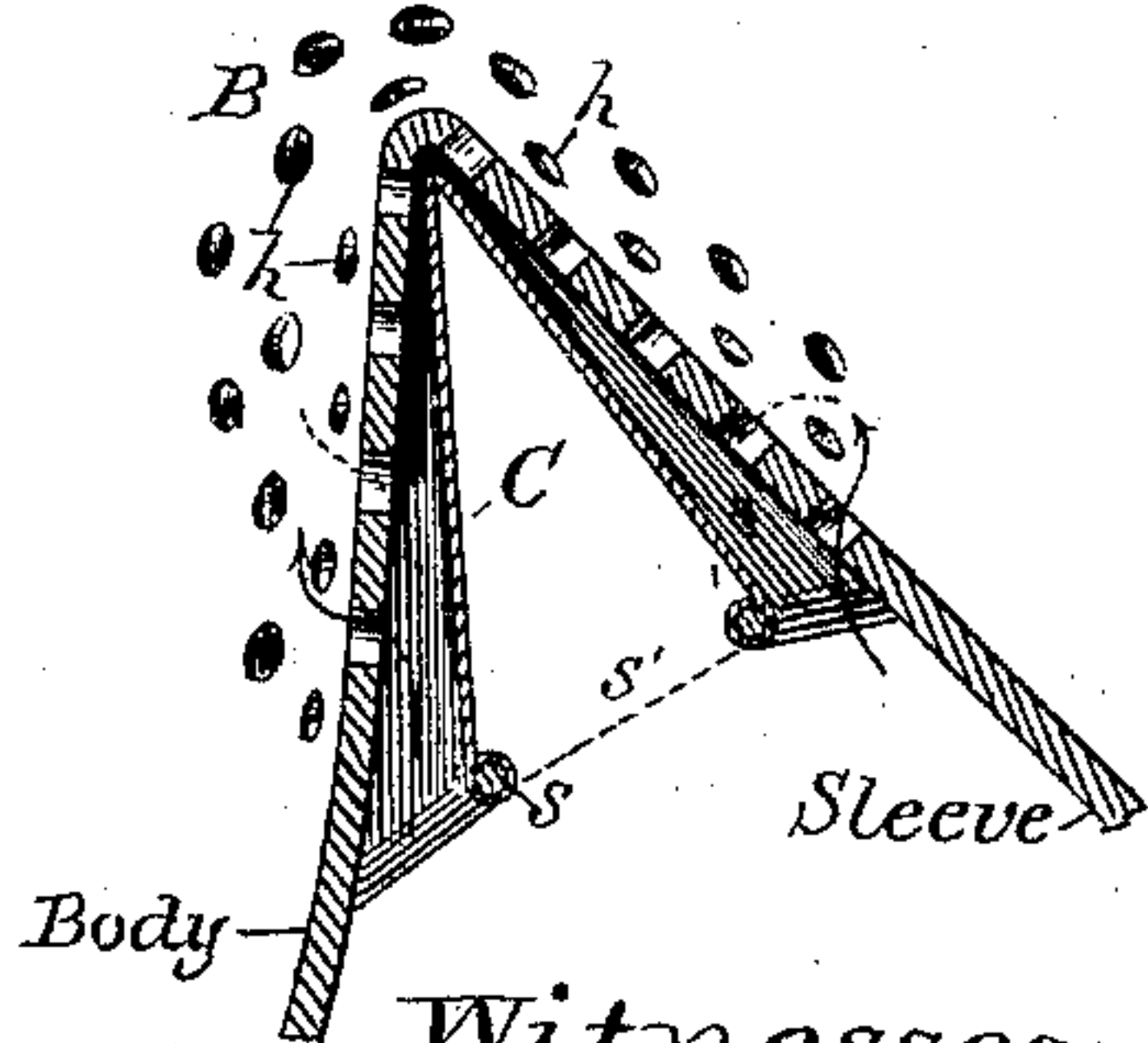
*Fig. 2.*



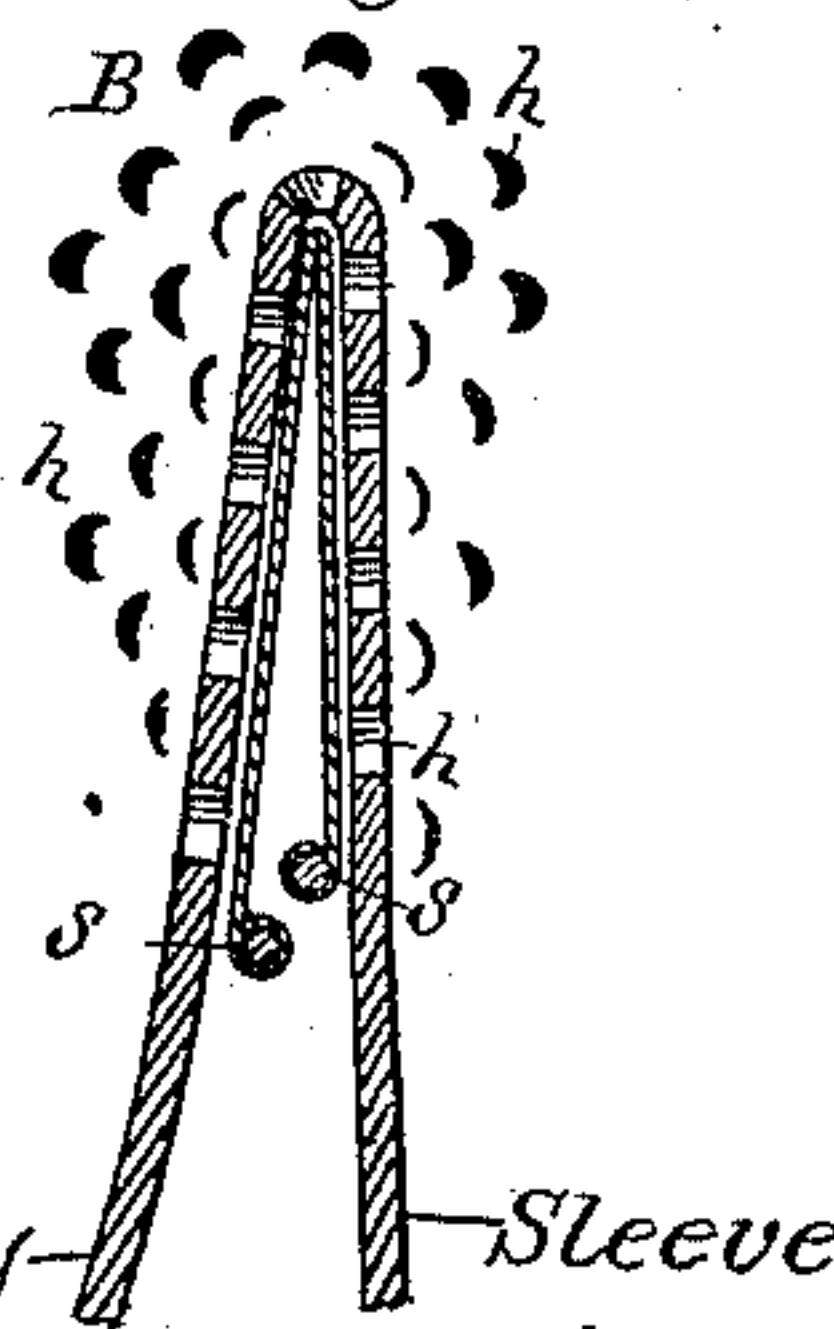
*Fig. 7.*



*Fig. 3.*



*Fig. 4.*



Witnesses:

*Alex. Scott*  
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Inventor.

JOHN SIDNEY GOLDSMITH,  
By his Attorney

*W. L. Ewin.*



# UNITED STATES PATENT OFFICE.

JOHN SIDNEY GOLDSMITH, OF NEW YORK, N. Y.

## VENTILATED GARMENT.

SPECIFICATION forming part of Letters Patent No. 397,543, dated February 12, 1889.

Application filed August 29, 1887. Serial No. 248,233. (No model.)

*To all whom it may concern:*

Be it known that I, JOHN SIDNEY GOLDSMITH, a citizen of the United States, and a resident of New York, in the State of New York, have invented a new and useful Improvement in Ventilated Garments, of which the following is a specification.

The general object of this invention is to provide more effective means for "ventilating" water-proof coats and cloaks and other body-garments which are so impervious to air or of such non-porous material as to require ventilation.

The invention relates to ventilated garments having their ventilating-holes at the armpits, in the sides of the body of the garment, and in the inner sides of its sleeves. The warm air and gases which otherwise accumulate under the arms are thus permitted to escape in the most direct way, and the entering air passes most readily thence to all parts of the body.

The present invention consists in providing each perforated armpit with an imperforate shield or "cover" fitted externally thereto approximately in loose surface-contact with the body and sleeve of the garment, attached thereto at front and rear, and open at those points which are its lower edges when the arm is lowered, (hereinafter termed its "lower edges,") whereby the entrance of water through the ventilating-holes is prevented without obstructing the escape of air and gases from the body.

The invention consists, further, in the combination, with each perforated armpit, of a water-proof cover having a suitably-bent marginal spring-wire, whereby its said lower edges are rendered normally "open" or held away from the garment, so as to insure the free admission of air, as well as its free escape.

A sheet of drawings accompanies this specification as part thereof.

Figure 1 of these drawings represents a body-garment "ventilated" according to this invention. Fig. 2 is a large-scale face view of the cover of the armpit-ventilating holes shown in Fig. 1. Figs. 3 and 4 represent vertical sections through the same attached, showing it respectively open and closed, the former illustrating a modification. Figs. 5 and 6 rep-

resent another species, showing the cover of its armpit-ventilating holes respectively fastened and unfastened. Fig. 7 represents another modification, hereinafter described. The line 8 9, Fig. 2, represents the plane of section of Figs. 3 and 4.

Like letters of reference indicate corresponding parts in the several figures.

The body-garment B may be of any approved pattern and of water-proof or other non-porous material. At its armpits suitable ventilating-holes, *h*, are punched or otherwise formed in the sides of its body and in the inner sides of its sleeves, or it may be in either the body or the sleeves alone. These holes preferably extend through all, as represented in the sectional views; but a thin porous lining would not materially obstruct them. They may be round or equivalent perforations, as represented in Figs. 1, 3, and 4, or they may be slits, as represented by Fig. 7, and they may be simply punched or cut, or may be provided with eyelets.

An external water-proof cover, C, Figs. 1 to 6, at each armpit prevents the entrance of water without obstructing the escape of air. These covers are similar in shape to ladies' "dress-shields," being fitted to the armpits of the garment approximately in loose surface-contact with the body and sleeve and adapted to unfold and flatten as the arms are raised and lowered, as illustrated by Figs. 3 and 4. They are securely attached to the garment at front and rear by stitches—for example, as represented by dotted lines at *a* and *b* in Fig. 2; but their lower edges, *c*, are in all cases left free for the entrance and escape of air to and from the ventilating-holes *h*.

In the species represented by Figs. 1, 2, 3, and 4, which is selected for my specific claim, each cover C is provided with an elastic opening device, *s*, in the form of a light marginal spring-wire arched outwardly with reference to the underlying surfaces of the body and sleeve at the lower edges of the cover and suitably attached, whereby said lower edges, *c*, are normally held away from the body and sleeve of the garment, as best seen in Fig. 3. Consequently when the arm is raised the cover automatically opens and gives the air free access to the ventilating-holes, as repre-



sented by full arrows in Fig. 3; and when the arm is lowered the cover is collapsed or closed, as shown in Fig. 4, at the last moment, after a free escape of air through the ventilating-holes, as represented by dotted arrows in Fig. 3.

A piece of elastic tape stretched between the lower edges, *c*, may supplement or take the place of the wire *s*, as represented by the dotted line at *s'* in Fig. 3.

In the species illustrated by Figs. 5 and 6 the lower edges, *c*, of the cover *C* are provided with fastening devices *f*—buttons and button-holes, for example—so that the entrance and escape of air may be prevented in cold weather.

Other like modifications will suggest themselves to those skilled in making such garments.

Having thus described my said improvement in ventilated garments, I claim as my invention and desire to patent under this specification—

1. A body-garment having ventilating-holes

at its armpits and provided with imperforate covers for the same fitted externally to the armpits approximately in loose surface contact with the body and sleeves attached thereto at front and rear, and having free lower edges at both extremities on the body and sleeve, respectively, substantially as hereinbefore specified.

2. In combination with a body-garment having ventilating-holes at its armpits, the within-described water-proof cover for each armpit fitted thereto externally, attached to the body and sleeve at front and rear, and provided with a marginal spring-wire which is arched outwardly with reference to the underlying surfaces at those points of the cover which are its lower edges beneath the lowered arm, substantially as hereinbefore specified.

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Witnesses:

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