(No Model.)

W. SACHS.

ARMHOLE GUSSET.

No. 322,855. Patented July 21, 1885.

Fig. 2.

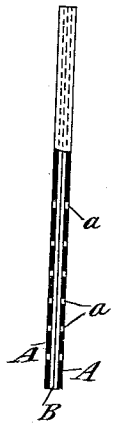


Fig. 1.

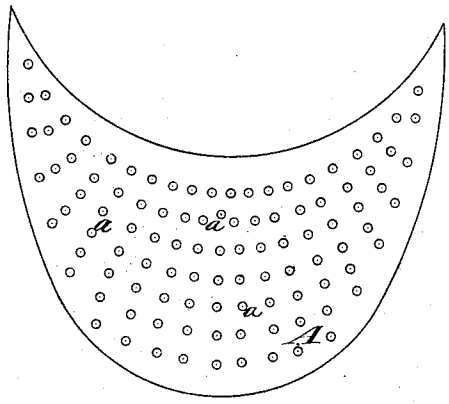


Fig. 3.

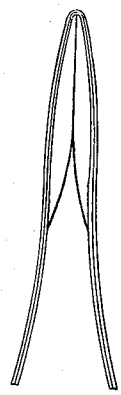
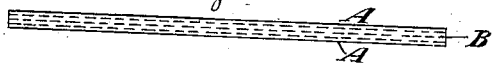


Fig. 4.



Witnesses:
James R. Bowen.
J. H. Keane

Inventor:
William Sachs
By his atty.
Edwin H. Brown.

N. PETERS. Photo-Lithographer, Washington, D. C.

UNITED STATES PATENT OFFICE.

WILLIAM SACHS, OF BERLIN, GERMANY.

ARMHOLE-GUSSET.

SPECIFICATION forming part of Letters Patent No. 322,855, dated July 21, 1885.

Application filed July 1, 1882. (No model.) Patented in Belgium November 11, 1880, No. 53,001; in France November 20, 1880, No. 139,753; in Austria-Hungary January 29, 1881, No. 35,063 and No. 2,615; in Germany February 8, 1881, No. 12,688, and in England March 29, 1881, No. 1,377.

To all whom it may concern:

Be it known that I, WILLIAM SACHS, a subject of the King of Prussia, residing at Berlin, in the Kingdom of Prussia, German Empire, have invented a new and Improved Gusset for the Armholes of Garments, of which the following is a specification.

My improvement consists in a gusset for the armhole of a garment composed of two outer pieces of perforated impermeable water-proof material, and one or more pieces of absorbing material interposed between them, all of said pieces having concave upper edges, and being connected together along said upper edges, but being otherwise unconnected together. The impermeable material serves to preserve the fabric of the clothes or other articles from the moisture, while the permeable material absorbs it and is dried by the penetrating air.

The gussets usually employed consist of an impermeable material, which, instead of counteracting the perspiration, excites the same by shutting off the air. The moisture or condensed perspiration is precipitated in liquid state upon the inner surface of the gusset, where it cools the skin in a most disagreeable and unwholesome manner. Many a severe cold and disease is occasioned by such impermeable gussets.

The gusset of my invention is shown in the drawings, Figure 1 being a side elevation, Fig. 2 a vertical section, Fig. 3 an end view, and Fig. 4 a plan or top view, of the same.

It consists of an inside piece or layer, B, and an outside piece or layer, A, the former being made of flannel or other suitable absorbing fabric, and the latter being made of impermeable water-proof material—such, for example, as india-rubber, wax-cloth, oil-cloth, leather, or other analogous substance perforated by little holes *a*. Through the said holes the atmospheric air enters into the armhole and counteracts the perspiration. At the same time the fluid drops of sweat which may occur are absorbed through the holes *a* and dried away in the flannel B. By this means the coat or dress is effectively preserved from being spoiled and the sweat is considerably reduced by airing. The two halves A B of the gusset may also be arranged in a manner that the permeable flannel gusset B is put outside, and the water-proof perforated gusset A inside; or the latter may also be lined on both sides with the flannel or fabric B. The effect is the same. By the airing of the armhole, effected through the perforations *a*, but little fluid drops of perspiration are produced, and the few ones are absorbed by the flannel B and dried away there by the admittance of air. These gussets, therefore, are of considerable sanitary utility. The two or three parts of the so-combined gusset are preferably united along their concave edges by a suitable glue, or sewing, or any other means.

I do not herein lay claim, broadly, to the gusset for the armhole of a garment consisting of one or more pieces of perforated material and one or more pieces of absorbent material, all said pieces having concave upper edges along which they are united together, said pieces of absorbent material being also otherwise united to the piece or pieces of perforated material to which they are adjacent, as I have made such a claim in another application for Letters Patent numbered 169,457, and dated June 22, 1885.

What I claim as my invention, and desire to secure by Letters Patent, is—

A gusset for the armhole of a garment composed of two outer pieces of perforated impermeable water-proof material, and one or more pieces of absorbing material interposed between them, all of said pieces having concave upper edges, and being connected together along said upper edges, but otherwise unconnected together, substantially as specified.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

WILLIAM SACHS.

Witnesses:
OTHMAR LENZ,
B. ROI.