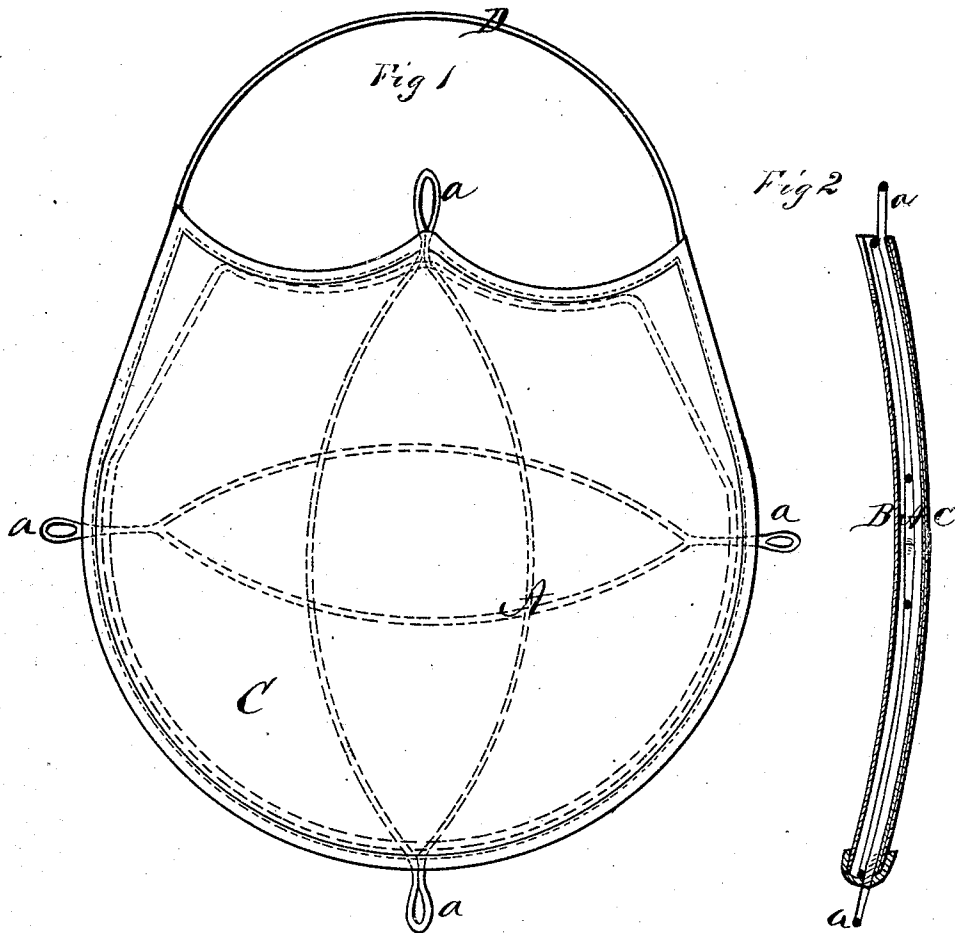


I. L. LANDIS.

Combined Shirt-Bosom Supports and Chest-
Protectors.

No. 146,919.

Patented Jan. 27, 1874.



Witnesses:

H. L. Quander
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UNITED STATES PATENT OFFICE.

ISRAEL L. LANDIS, OF LANCASTER, PENNSYLVANIA.

IMPROVEMENT IN COMBINED SHIRT-BOSOM SUPPORTS AND CHEST-PROTECTORS.

Specification forming part of Letters Patent No. **146,919**, dated January 27, 1874; application filed July 14, 1873.

To all whom it may concern:

Be it known that I, ISRAEL L. LANDIS, of Lancaster, in the county of Lancaster, and in the State of Pennsylvania, have invented certain new and useful Improvements in Combined Breast-Protector and Bosom-Expander; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings and to the letters of reference marked thereon, making a part of this specification.

The nature of my invention consists in combining, with a shirt-bosom expander, a case, within which the expander is placed, and which is made of chamois-skin on the inner side, and of flannel on the outer side, of the bosom-expander, and forming a lung-protector, as hereinafter more fully set forth.

In order to enable others skilled in the art to which my invention appertains to make and use the same, I will now proceed to describe its construction and operation, referring to the annexed drawing, in which—

Figure 1 is a front view, and Fig. 2 a longitudinal section, of my combined shirt-bosom expander and lung-protector.

A represents a shirt-bosom support or expander, made of wire or any other suitable material, and which may be made substantially in the manner described in my Letters

Patent No. 139,797, dated June 10, 1873, or in any other manner that will answer the same purpose. This support or expander I inclose in a case made of a piece, B, of chamois-skin, and a piece, C, of flannel, the latter being on the front or outer side, and the former on the inner side, of the expander. The loops *a a* of the bosom-expander A pass through the edges of the casing thus made, so as to be buttoned to the shirt; and to the upper edge of the case is attached an elastic band, D, to be passed around the neck of the wearer.

The casing B C, from its position on the breast of the wearer, forms a protection for the lungs.

Having thus fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

In combination with a shirt-bosom expander, A, a surrounding case made of chamois-skin, B, and flannel C, substantially in the manner and for the purposes herein set forth.

In testimony that I claim the foregoing I have hereunto set my hand this 9th day of June, 1873.

ISRAEL L. LANDIS.

Witnesses:

WM. B. WILEY,
A. N. MARR.