

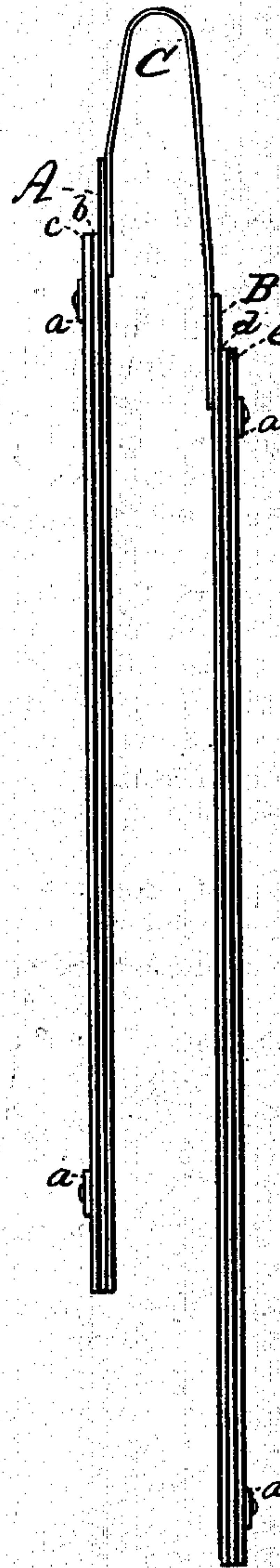
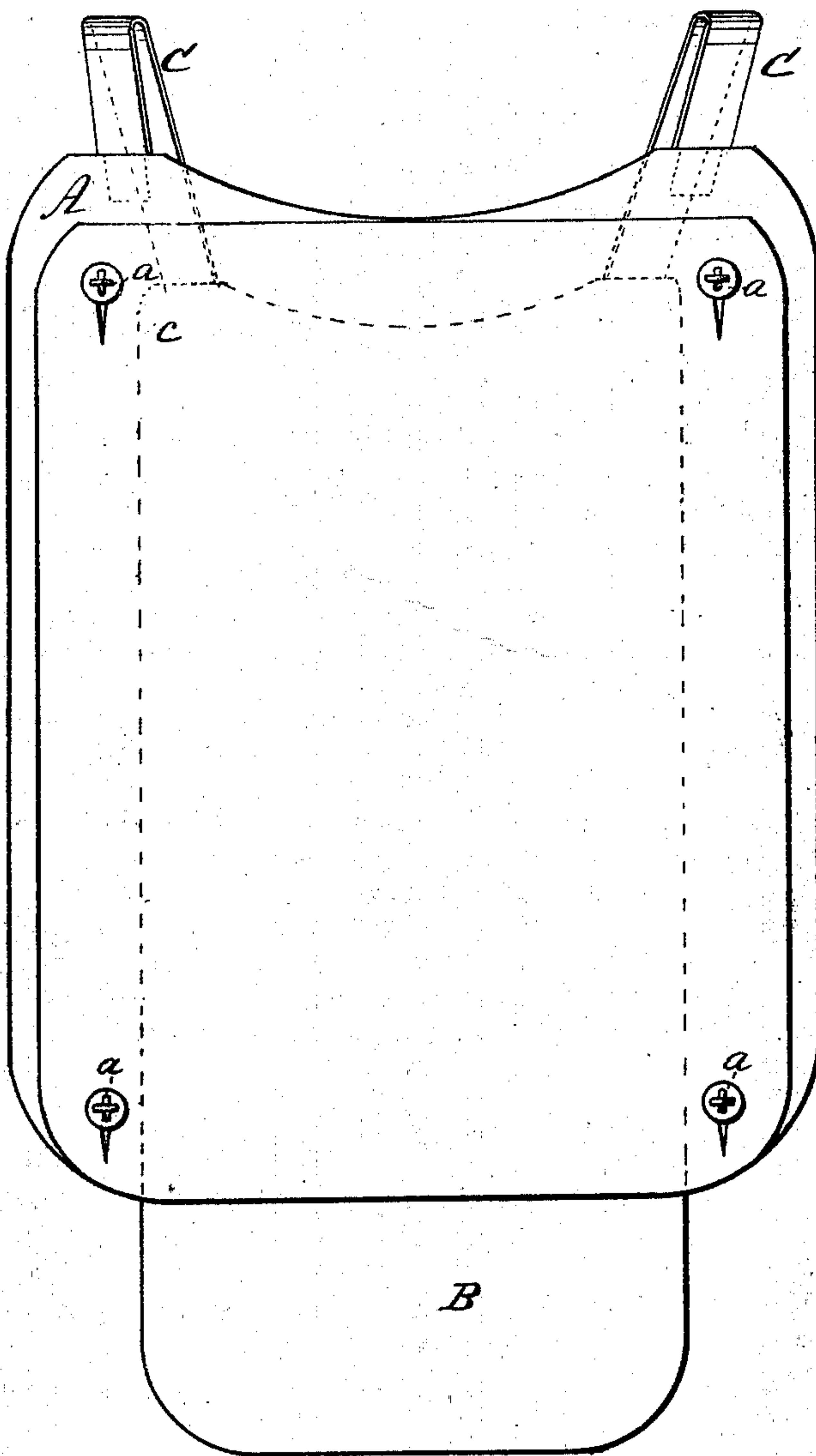
I. A. SINGER.
Chest-Protectors.

No. 146,365.

Patented Jan. 13, 1874.

Fig. 1.

Fig. 2.



Witnesses.

Inventor.

The O. How.
Lucius W. How.

Isaac A. Singer

UNITED STATES PATENT OFFICE.

ISAAC A. SINGER, OF KINGSBRIDGE, NEW YORK.

IMPROVEMENT IN CHEST-PROTECTORS.

Specification forming part of Letters Patent No. **146,365**, dated January 13, 1874; application filed April 18, 1873.

To all whom it may concern:

Be it known that I, ISAAC A. SINGER, of Kingsbridge, in the county of Westchester and State of New York, have invented certain Improvements in Chest-Protectors, of which the following is a specification:

My invention consists in a graduated covering, which may be worn on the chest or back of a person, to protect the wearer from sudden changes of the weather, which covering is made of two or more thicknesses of chamois-skin, flannel, or other warm material, said thicknesses or sheets being provided with buttons and button-holes, or equivalent devices for connecting them to each other, arranged as hereinafter described, to enable the wearer to increase or diminish the amount of covering as the weather increases or decreases in severity.

The chest-protector now in use is composed simply of one piece, or of two or more pieces permanently fastened together, which, while it serves the purpose required for a time, will, upon removal from the person, subject the wearer to the danger of taking cold from the sudden change; but in my invention this danger is obviated, by the combination of two or more thicknesses of chamois-skin, flannel, or other warm material, which may be suspended from the neck of the wearer by means of a tape, elastic band, or other similar material.

Figure 1 is a front elevation of a chest-protector embodying my invention. Fig. 2 is a rear elevation of the same. Fig. 3 is a vertical transverse section of the same.

A is the front covering for the chest, which should be made of chamois-skin, flannel, or other warm material, and of a form similar to that shown in the drawing, which may be hung around the neck of the wearer by means of an

elastic, tape, or other material, or may be connected to the back covering B by means of the tapes or bands C. This part A is formed of a single piece of suitable material, having buttons *a*, or equivalent means of connection, attached to convenient places on its surface, by means of which and button-holes in the other layers one or more layers may, as in *b* *c*, be attached, and thus form a chest-protector, the thickness of which may be varied, according to the severity of the weather.

Instead of buttons and button-holes, hooks and eyes, or other equivalent device for securing the different thicknesses together in such a way that they can be readily detached, may be used.

The back piece B may also be composed of a like set of layers, *d e*, attached in a similar manner, or may be of one piece, connected with the front piece A, as described, by means of an elastic band or other similar material. Studs may be used in this construction in place of and as the equivalent of buttons, or eyelet-holes and screw-studs may be adopted in place of buttons and button-holes, care being taken to turn the point of the screw in such a direction that it will not scratch the flesh of the wearer.

I claim as my invention—

A chest-protector made up of two or more thicknesses of cloth or other suitable material, and provided with buttons and button-holes, or equivalent devices for uniting said thicknesses together, substantially as hereinbefore set forth.

ISAAC A. SINGER.

Witnesses:

THOS. P. HOW,
LUCIUS W. HOW.