

(No Model.)

J. E. BUTTS.  
BODY VENTILATOR.

No. 431,764.

Patented July 8, 1890.

Fig. 1.

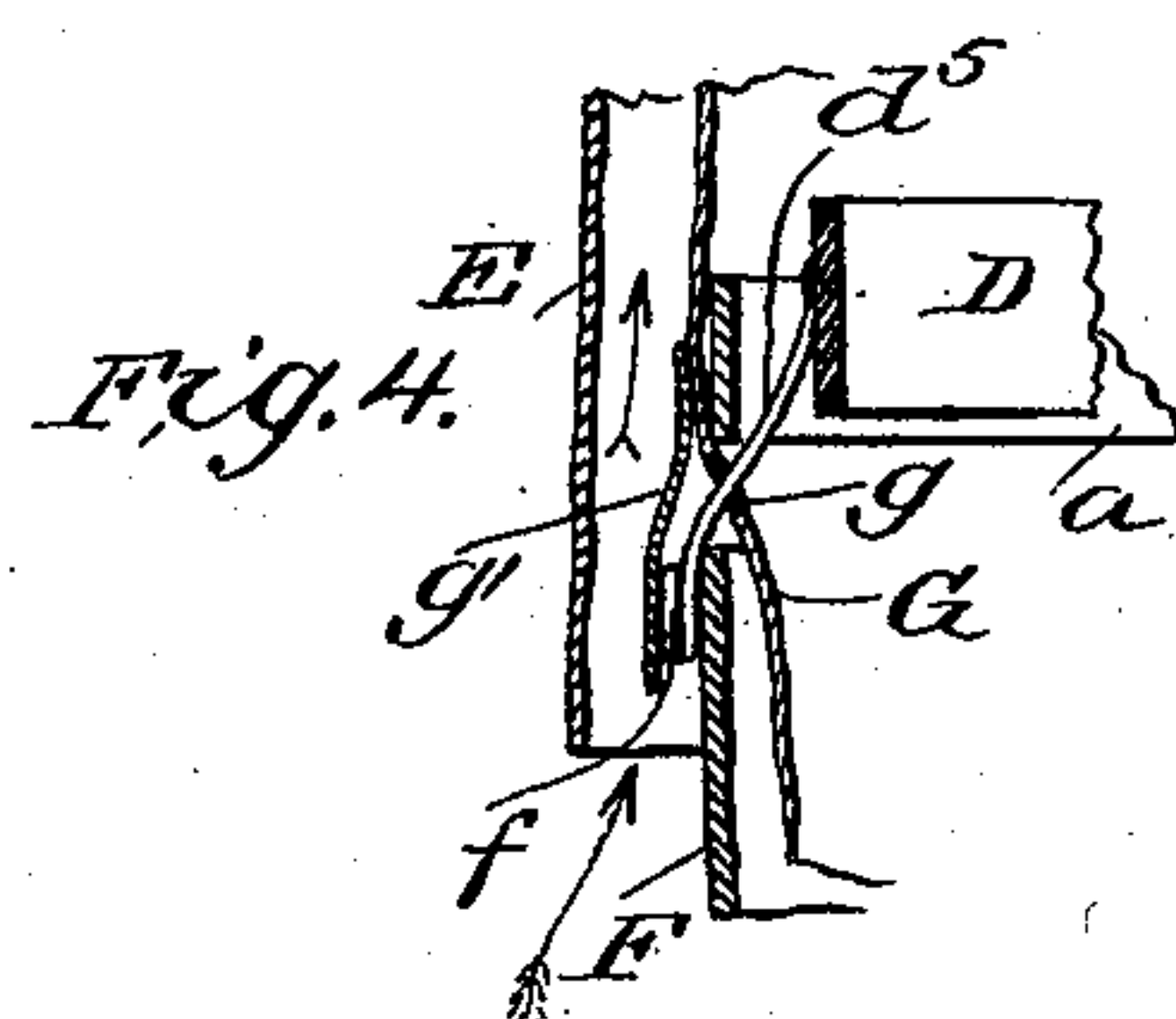
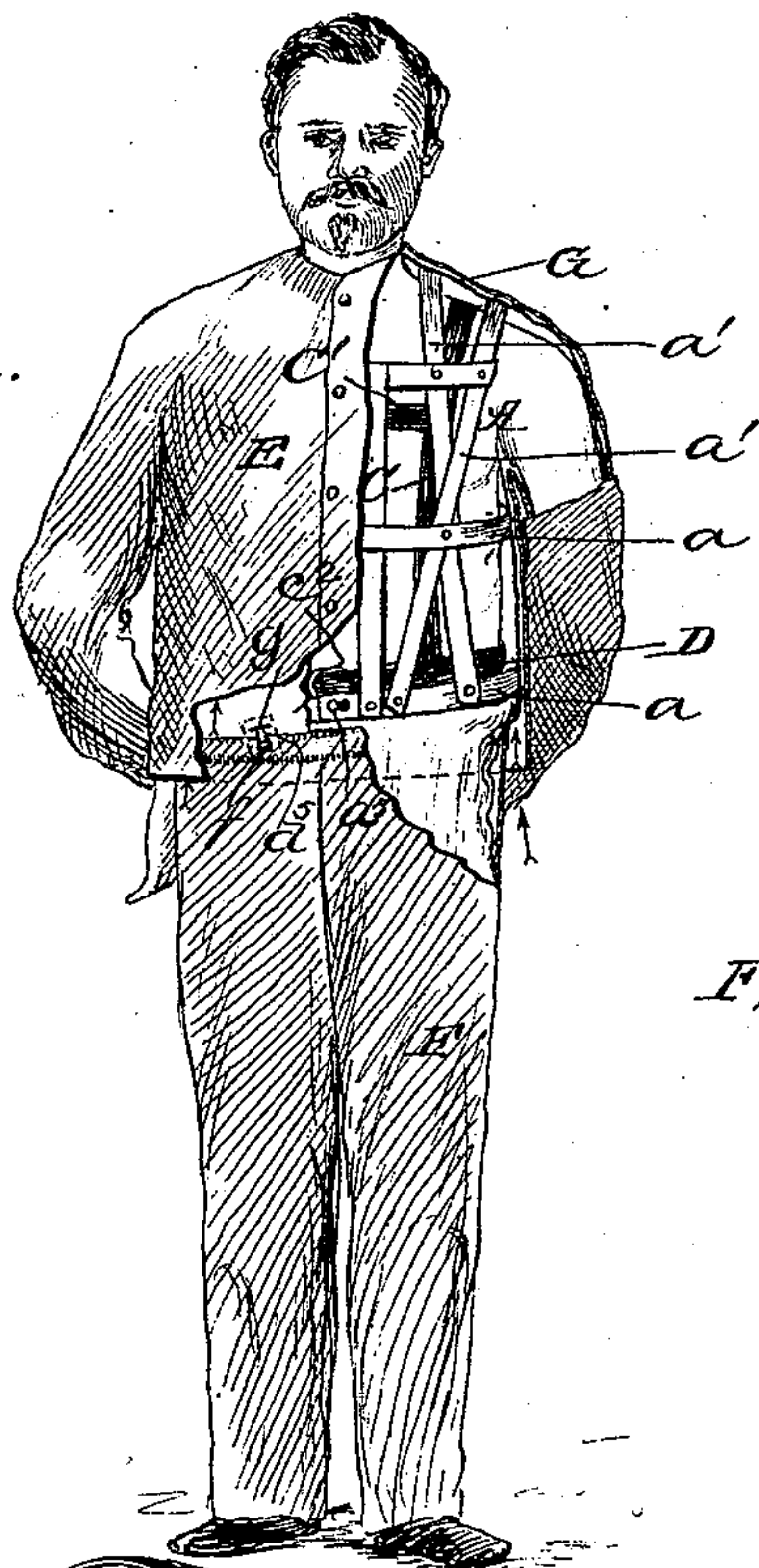


Fig. 2.

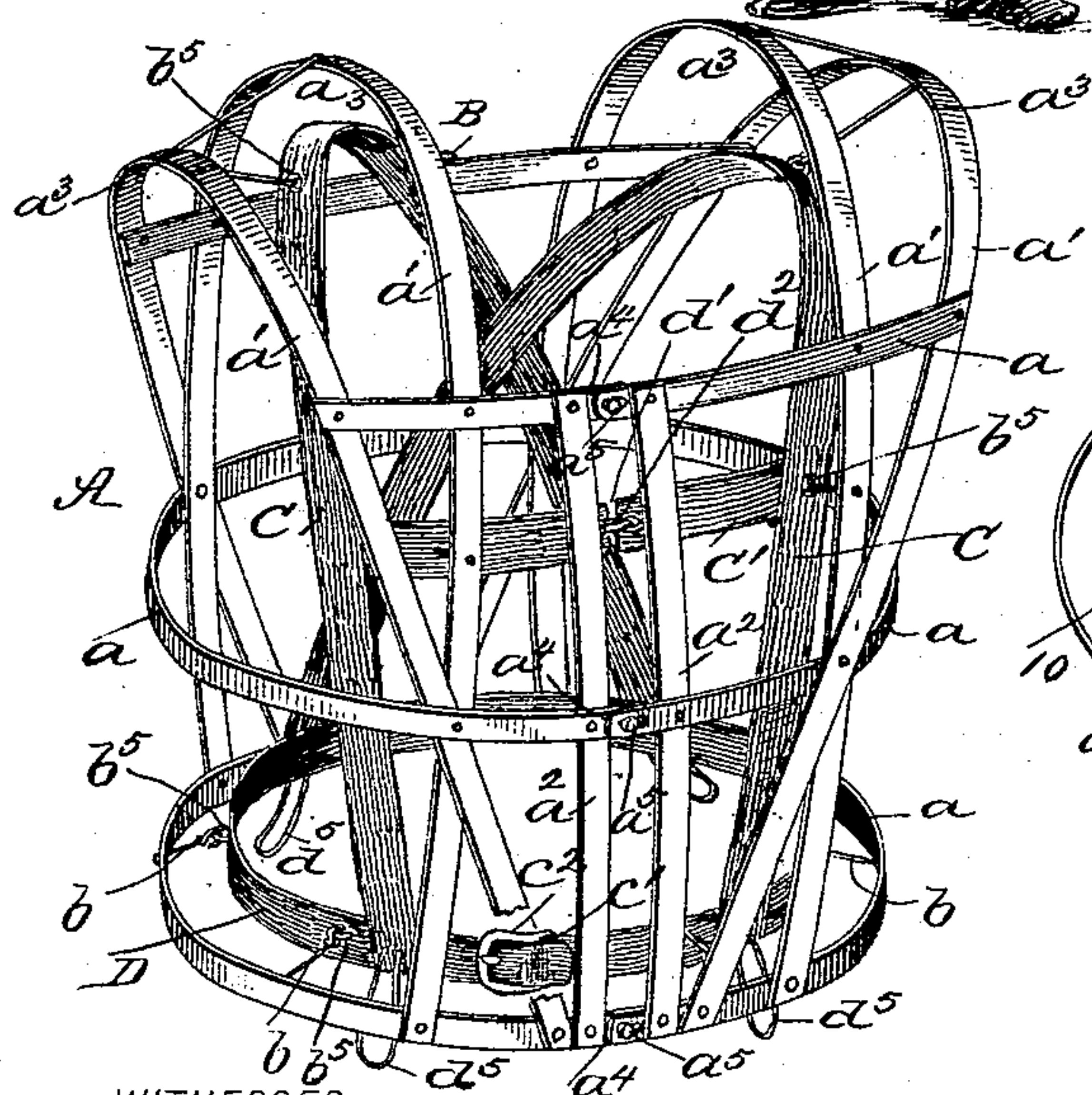
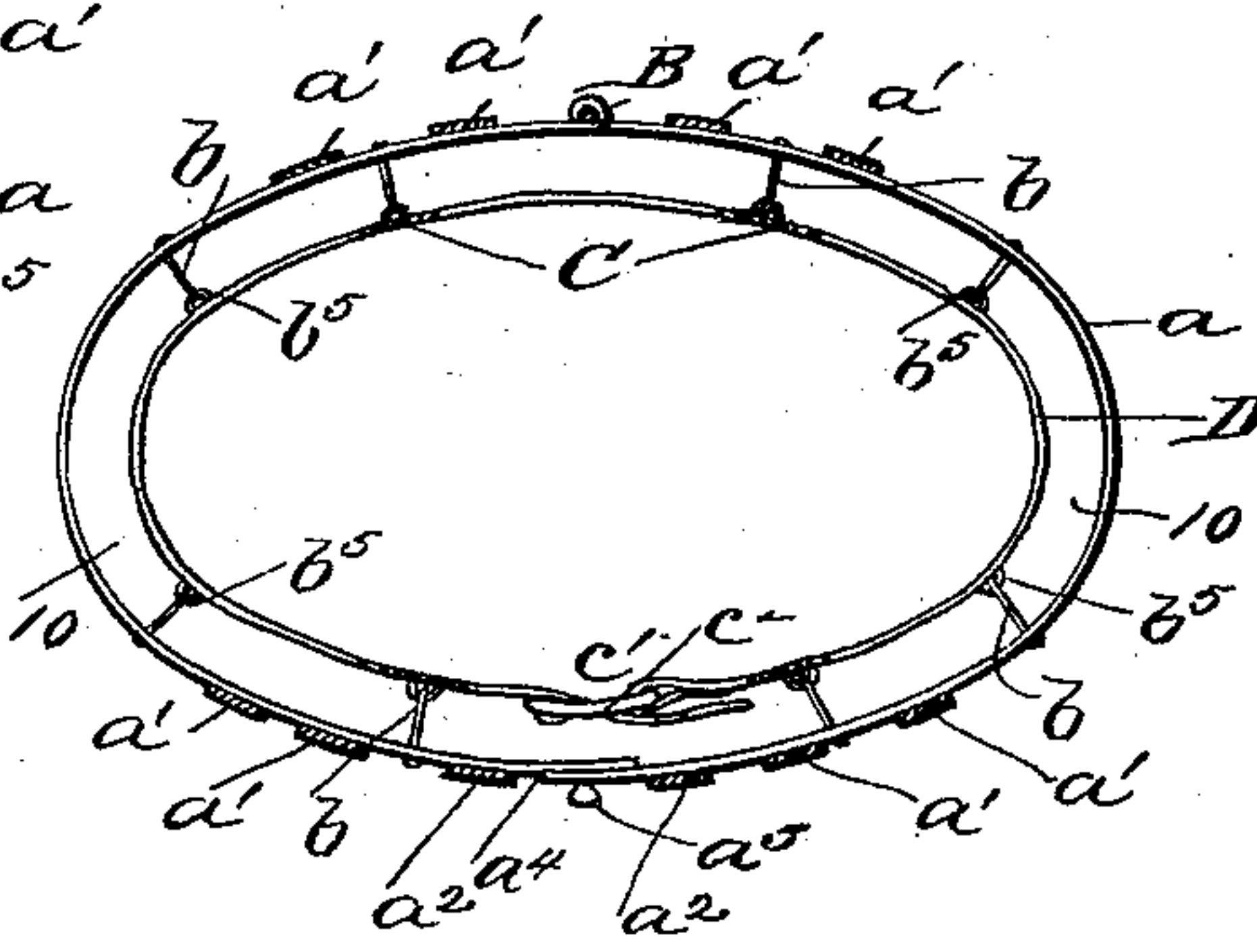


Fig. 3.



WITNESSES:

Fred G. Dieterich  
Jos. A. Ryan

INVENTOR:

Joseph E. Butts.

BY

Mann L.

ATTORNEYS.



# UNITED STATES PATENT OFFICE.

JOSEPH E. BUTTS, OF HAWTHORN, FLORIDA.

## BODY-VENTILATOR.

SPECIFICATION forming part of Letters Patent No. 431,764, dated July 8, 1890.

Application filed March 11, 1890. Serial No. 343,559. (No model.)

*To all whom it may concern:*

Be it known that I, JOSEPH E. BUTTS, residing at Hawthorn, in the county of Alachua and State of Florida, have invented certain new and useful Improvements in Body-Ventilators, of which the following is a specification.

My invention has for its object to provide a cheap and simple device which can be conveniently and quickly adjusted to the body of a person in such a manner that the clothes when placed thereon will be held from the body of the wearer, whereby an air or cooling chamber is provided between the body of the wearer and his clothes.

My improved device is especially adapted for use during the hot seasons where the work is to be done out of doors—such as cotton or orange picking—and also for use in factories, foundries, and the like, where the heat is so intense that the workmen are frequently compelled (to keep the body in a proper temperature) to dispense with all clothing from the upper portion of their bodies.

My invention consists in the combination of an elastic support or suspender adapted to be fitted to the body and a semi-rigid skeleton frame formed into jacket shape, connected by suitably-arranged interposed stays with and held from the elastic support, whereby an air-space is formed therebetween, said suspender-support and the skeleton frame being divided so the device can be quickly fitted to the body of the wearer.

My invention further consists in the peculiar combination and novel arrangement of the several parts, all of which will hereinafter be fully described in the annexed specification, and particularly pointed out in the claims, reference being had to the accompanying drawings, in which—

Figure 1 is a view illustrating my invention as applied for use, parts being broken away to more clearly illustrate the same. Fig. 2 is a perspective view of the device. Fig. 3 is a horizontal section of the same; and Fig. 4 is a detail section showing the manner of connecting the suspender or support the shirt with the pantaloons.

In the accompanying drawings the clothing supporter or frame A is constructed of a light material—such as a series of thin

spring-steel wires, hoop-skirt, or whalebone—formed into the shape of a vest, but made larger than the body, such frame being composed of the horizontal rods  $a$ , the vertical shoulder-bars  $a'$   $a'$ , and the short vertical front bars  $a^2$   $a^2$ , said shoulder-bars being bent to form the shoulder-loops  $a^3$   $a^3$ , said horizontal and vertical bars being connected together, as shown. The horizontal bars are divided at  $a^4$ , the adjacent rear ends being hinged, as at B, while the front end thereof is provided with suitably-constructed clasp-fastenings  $a^5$ , such construction permitting the frame A to be put on with ease.

Elastic suspender-braces C are arranged to fit on the body of the wearer, the lower ends of which are connected to the waistband D, the horizontal connecting portions C' of such suspenders and the waistband being divided at  $c'$   $d'$  and connected by a hook and eye and a buckle  $c^2$   $d^2$ , respectively, to admit of the suspender being divided when it is desired to remove the device from the body. The frame A is held from the suspenders C and the waistband D by means of a series of cord-connections  $b$   $b$  about an inch long. By arranging the cords  $b$   $b$  as shown, the frame A is held about one inch from the body, forming an air-space 10 all around the same between it and the frame A, and thereby preventing the frame A touching any portion of the body.

In the practical application of my device the frame is intended to be worn under a loose coat, a workman's jacket, or a round-about. It can, however, if desired, be worn over an undershirt. The jacket or overgarment E is somewhat longer than the frame A.

F denotes the pants or overalls, which are suspended from the waistband D by means of the buttons  $f$   $f$  on the pants and the loops  $d^5$  of strong corded tape secured to the waistband.

If desired, a dress-shirt G may be worn over the frame, such shirt being provided with holes  $g$   $g$ , through which the loops  $d^5$  are pulled and adjusted over the buttons  $f$ , and  $g'$   $g'$  denote flaps secured to the shirt, which fall over the holes  $g$   $g$  and serve to hide same from view. By these means the frame can be worn with an undershirt next the body, or without, by wearing an overshirt over the frame; also, with a coat, if one prefers.



A man can dress as usual by simply getting clothes of a size or two larger than usual.

The frame in no wise is in the way of a man doing any kind of work, even chopping with an ax, as the construction of the frame is such as not to interfere with the movement of the arms. As the suspenders are of either cloth, elastic, linen, silk, &c., they will of course, being in close contact with the body and perspiration, soon wear and rot out, and will necessarily have to be replaced.

In order to facilitate the attachment of a new set of suspenders and waistband to the rigid frame, I provide the ends of the cords *b* with hooks, which engage eyes *b*<sup>5</sup> on the frame *A*, as shown.

To remove the device from the body, it is only necessary to undo the loops and open the jacket and disconnect the clasps. It will then open up like a vest, and the frame and suspenders can thereby be removed at one time.

From the foregoing description, taken in connection with the drawings, the advantages of my improved body-ventilator will be readily understood. The same, when worn, will keep the sun from burning and blistering the body, at the same time allowing the continual passage of air around the body, keeping the person cool and pleasant in the extreme heat of summer.

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

1. A body-ventilator consisting of an elastic support adapted to be held on the body, a semi-rigid skeleton frame surrounding said support, interposed stays for connecting and holding said frame and support apart, whereby an air-space is formed therebetween, said support and frame formed in sections hinged together, whereby the same may be readily adjusted to the body of the wearer, substantially as shown and described.

2. A body-ventilator consisting of a yielding support adapted to be held on the body, a semi-rigid skeleton frame surrounding said support, adapted to hold the clothing of the wearer, and the flexible stays secured to the support and detachably connected to the frame, substantially as and for the purpose described.

3. A body-support consisting of an elastic support formed of the shoulder-braces and the waistband, said support arranged to open at its front edges, a semi-rigid skeleton frame consisting of the vertical and horizontal bars formed in sections, hinged together at the rear ends, means for fastening the said sections together, said frame surrounding said support, the cord-connections between said support, and the frame whereby it is held from the support, substantially as and for the purpose described.

JOSEPH E. BUTTS.

Witnesses:

J. E. SHIELDS,  
S. M. BELL.