Nov. 19, 1940. W. E. WILLIAMS 2,222,523

LADY'S HEALTH BRASSIERE AND HEALTH PROTECTOR

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Fig. 1.

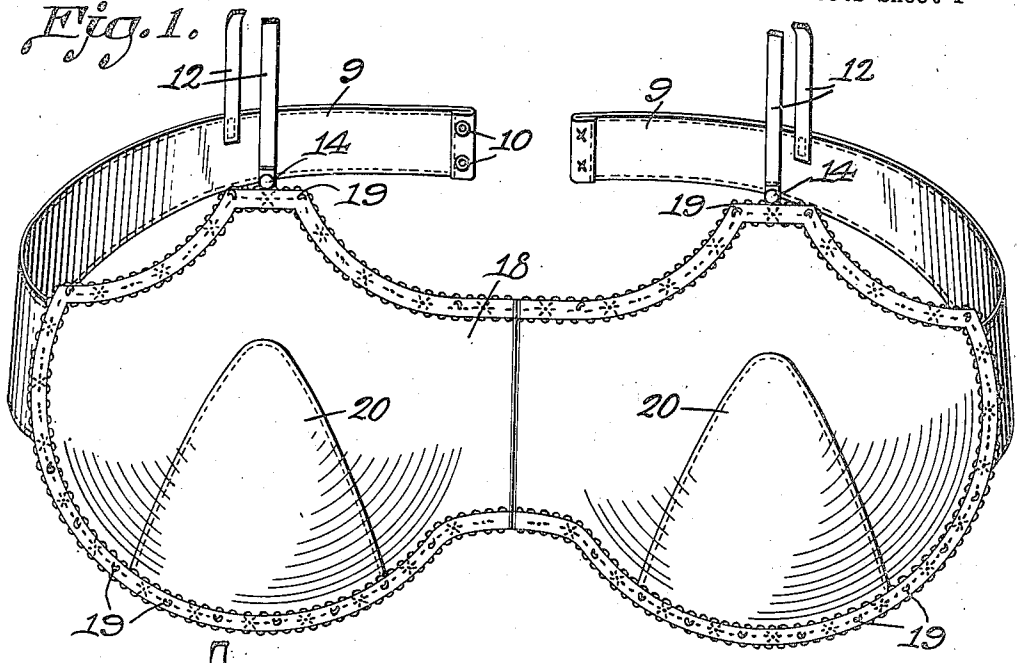
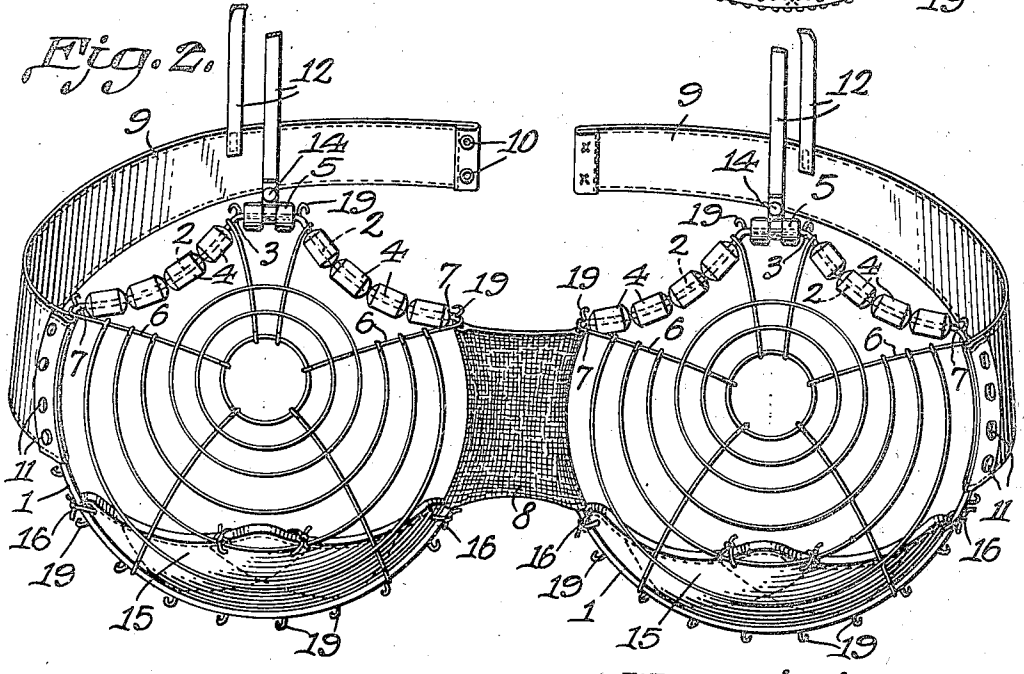


Fig. 2.



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Fig. 3.

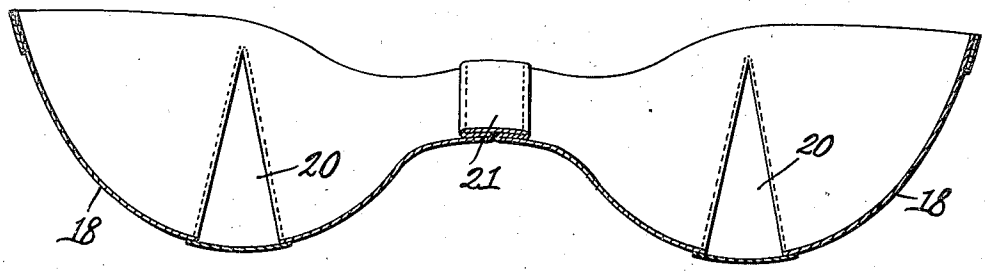


Fig. 4.

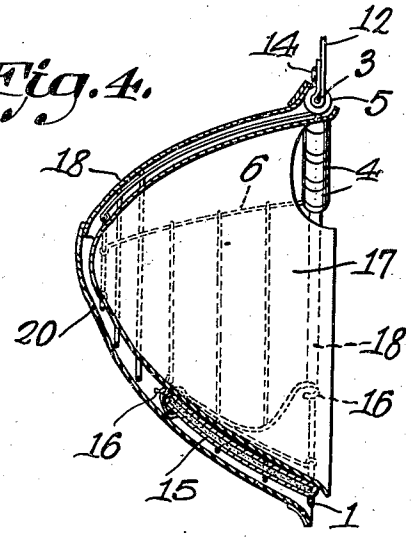


Fig. 5.

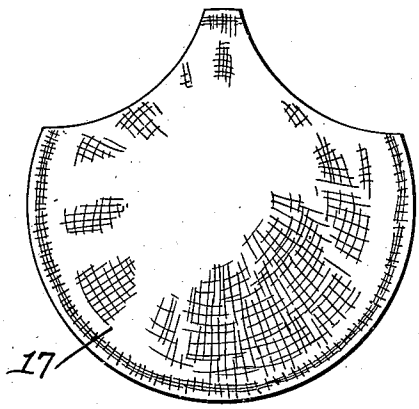


Fig. 6.

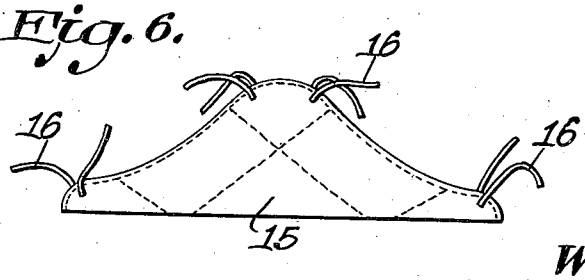
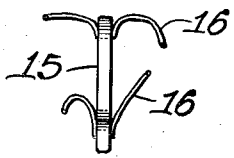


Fig. 7.



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UNITED STATES PATENT OFFICE

2,222,523

LADY'S HEALTH BRASSIÈRE AND HEALTH PROTECTOR

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Application January 28, 1939, Serial No. 253,407

2 Claims. (Cl. 2—42)

This invention aims to provide a brassière which will be productive of a mild massage, kill the odors of perspiration, and be capable of being taken down for the laundrying of those parts that need cleaning.

The invention aims to provide frames of novel form, resiliently connected, and to provide a cover and other parts for use with the frames, novel means being supplied for mounting the article on the body of a wearer.

It is within the province of the disclosure to improve generally and to enhance the utility of devices of that type to which the present invention appertains.

With the above and other objects in view, which will appear as the description proceeds, the invention resides in the combination and arrangement of parts and in the details of construction hereinafter described and claimed, it being understood that changes in the precise embodiment of the invention herein disclosed, may be made within the scope of what is claimed, without departing from the spirit of the invention.

In the accompanying drawings:

Fig. 1 shows in perspective, an article constructed in accordance with the invention;

Fig. 2 is a perspective wherein the outer covering has been removed;

Fig. 3 is a longitudinal section of the covering;

Fig. 4 is a vertical section taken through one of the frames and associated parts;

Fig. 5 is an elevation of the gauze protector;

Fig. 6 is an elevation of the chemical pad;

Fig. 7 is an elevation wherein the pad is viewed edgewise.

The numeral 1 marks a pair of outwardly bulged open-work frames, preferably made of wire. The upper parts of the frames 1 are composed of downwardly concaved portions 2 forming an intermediate seat 3. Rollers 4 are mounted to turn on the downwardly concaved portions 2 of the frames 1. Rollers 5 are mounted to turn on the seats 3. The rollers 4 and 5 produce a mild massage and may be made of glass or similar material, if desired. The rollers 4 are prevented from sliding downwardly by contact with certain radial elements 6 of the frames 1. If the radial elements 6 are not located as shown in the drawings, the rollers 4 cannot slide downwardly, because angles 7 are formed where the concaved portions 2 of the frames 1 join the rims of the frames.

The inner portions of the rims of the frames 1 are joined by a strip 8 of elastic material. A body encircling band is provided. The band is made up of two flexible straps 9, formed of cloth or the like. The rear ends of the straps 9 are joined detachably by separable fasteners 10. The forward portions of the straps 9 are connected to the outer portions of the rims of the frames 1 by separable fasteners 11. The rear ends of U-shaped shoulder pieces 12 are secured to the straps 9. The forward ends of the shoulder pieces 12 are joined to the seats 3 by separable fasteners 14, the rollers 5 being located on opposite sides of the forward ends of the shoulder pieces 12.

Pads 15 are secured to the frames 1 by tie strings 16. The pads 15 are located on the inside of the frames 1, and on the lower portions thereof. The pads 15 preferably are absorbent, and may be charged with a chemical which will nullify the odors of perspiration. The pads 15 are located within the frames 1, and extend backwardly to the rear edges of the frames, to nullify perspiration in the angles caused by the tendency of breasts to sag, the pads terminating well below the centers of the frames 1, to avoid overheating of the upper portions of the breasts and the nipples.

Protecting layers 17 of gauze or similar material are located within the frames 1, behind the pads 15, and conform to the shape of the frames. Figure 4 illustrates a portion of the invention from the standpoint of making a clear disclosure as to structure. In practice, the breasts cause the thin gauze layers 17 to conform to the inner surfaces of the frames 1, much more closely than Figure 4 shows, and the layers 17 do not extend between the rollers 4 and 5 and the breasts, and thereby prevent the rollers from having contact with the breasts: but to insure contact between the rollers and the breasts, the layers 17 are cut away on their upper edges, as shown in Figure 5, to expose the rollers, as shown in Figure 4.

On the outside of the frames 1 is located a cover 18, conforming to the shape of the frames 1, and preferably made of cloth. The cover 18 is held in place, because it can be engaged detachably with hooks 19 on the rims of the frames 1. Any suitable substitute for the hooks 19 may be provided. The cover 18 may be gored, as shown at 20, to facilitate the shaping of the cover to the frames 1. A reef 21 may be formed in the intermediate portion of the cover 18 and be ironed down, as shown in Fig. 3. The reef 21 will expand, as occasion may require, to vary the horizontal distance between the bulged portions of the cover 18 and, thereby, enable the bulged

portions of the cover to conform properly with the distance between the centers of the frames 1.

The elastic strip 8 forms a yieldable connection between the frames 1 and enables the device to conform to the movements of the body of the wearer. The pads 15 are located at the places of juncture between the lower portions of the breasts of the wearer and the wearer's body. Perspiration is likely to occur there, and the pads, being treated with a suitable chemical, kill the odors of perspiration. The pads 15 are of relatively small size, considered with respect to the frames 1, and the breasts of the wearer are not inclosed in a heating and sweat producing cover. By detaching the fasteners 14 and 11, the straps 9 and the shoulder pieces 12 can be taken off for washing. The cover 18 may be detached from the hooks 19, for washing.

The device is simple in construction, but thoroughly sanitary, in that all parts needing laundry work can be detached readily for that purpose.

What is claimed is:

1. A brassière comprising open mesh frames shaped to conform to the human breasts, a resilient connection between the inner portions of the frames, a body encircling band, means for connecting the forward ends of the band detachably to the outer portions of the frame, shoulder pieces having their rear ends connected to the rear portion of the band, means for connecting the forward ends of the shoulder pieces detachably with the upper parts of the frames and rollers journaled on the upper portions of the frames, and located in groups, on opposite sides of the places of connection between the forward ends of the shoulder pieces and the frames.

2. A brassière comprising open mesh frames, shaped to conform to the human breasts, means for connecting together the inner portions of the frames, means for holding the frames on the body of a wearer, chemical pads of less area than the frames, the pads being located within the frames and extending backwardly to the rear edges of the frames, to nullify perspiration in the angles caused by the tendency of breasts to sag, the pads terminating well below the centers of the frames, to avoid overheating of the upper portions of the breasts and the nipples, means for securing the pads to the lower portions of the frames, and a cover extended over the frames, outwardly thereof, and detachably connected to the frames.

WALTER EMMETT WILLIAMS.