April 20, 1937. D. ROTELLI ET AL 2,078,099

BRASSIERE

Filed March 11, 1936 2 Sheets-Sheet 1

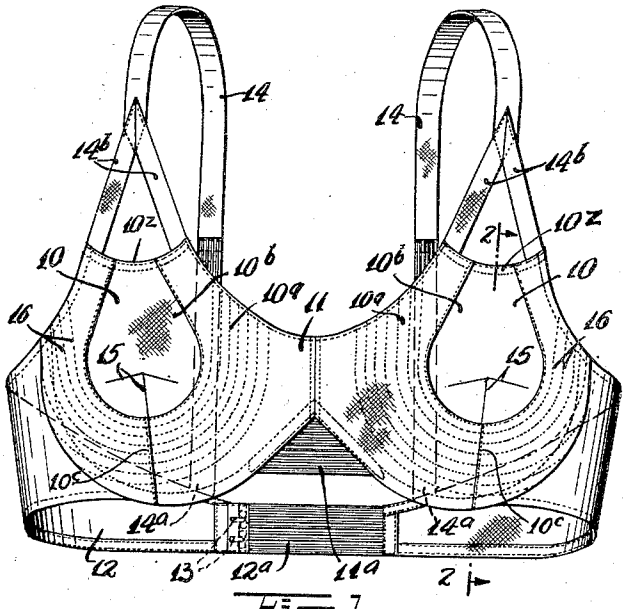

Fig. 1.

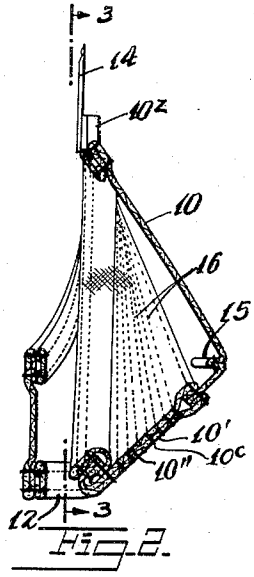

Fig. 2.

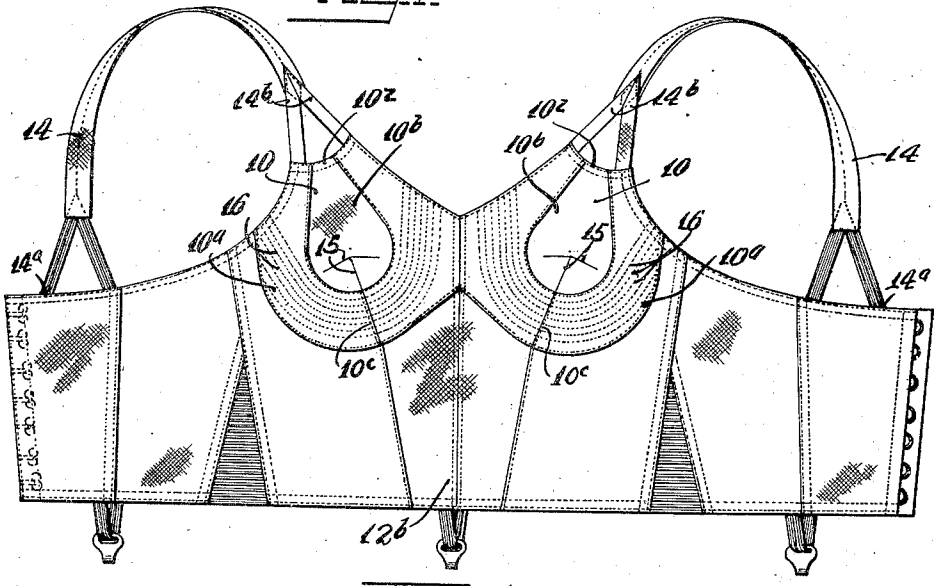

Fig. 4.

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BRASSIERE

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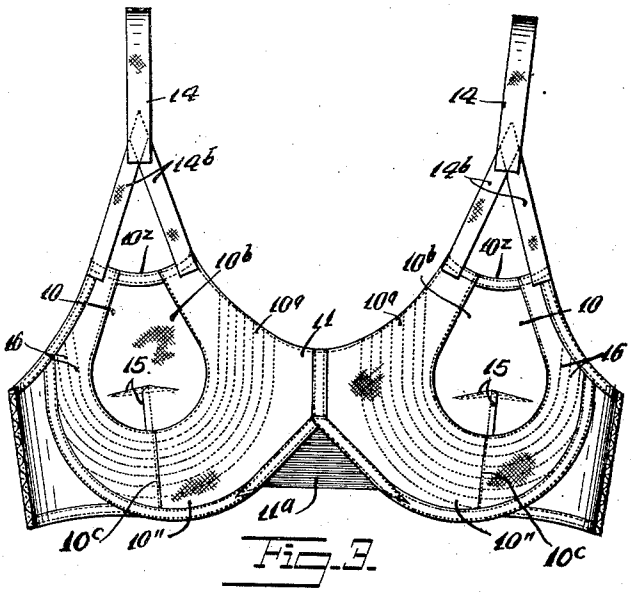

Fig. 3.

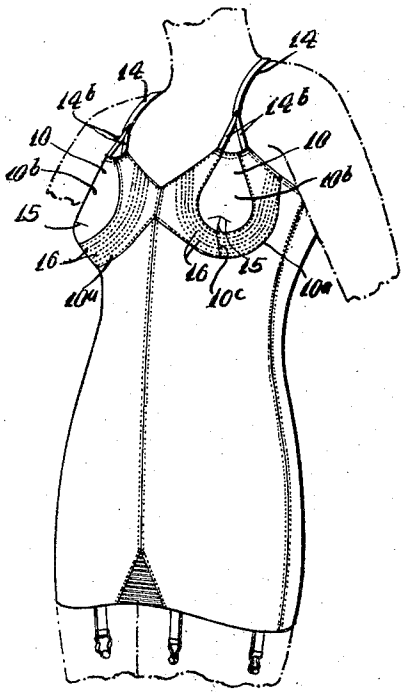

Fig. 5.

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BRASSIÈRE

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Application March 11, 1936, Serial No. 68,174

3 Claims. (Cl. 2—42)

This invention relates to new and useful improvements in a brassière and similar all-in-one garment, having for one of its objects the provision of improved means for correctively rejuvenating, invigorating and restoring in a superior manner the broken down tissues of a woman's bust, whereby drooping breasts are caused to resume a more upright position, hence contributing to a woman's figure, comfort and health.

The invention has for an object the construction of an article as mentioned which is characterized by a pair of bust cups, each to comprise an outer substantially horse-shoe shaped section of relatively strong material for supporting the bust, and an inner section of soft and flexible material for filling in the space between the arms of the horse-shoe shaped section so that the bust is projected forwards and outwards.

A further object of the invention is to arrange the shoulder straps in conjunction with the horse-shoe shaped supporting sections so that the busts are separated.

A further object of the invention is to provide a superior reinforced horse-shoe shaped section of the garment which will fit around each breast in a more perfect manner and which may be depended upon to lift the breast and project it forward in the manner which is most conducive to health and to improvement of the figure.

A further object of the invention is to adapt the construction to combination foundation garments.

It is a further object of the invention to provide a brassière which is suitable for wear upon different types of figures so that a merchant need only carry in stock a limited number of sizes and yet be able to provide a brassière suitable for the use of any probable customer.

Another object of the invention is the construction of an article as mentioned which is simple and durable and which may be manufactured and sold at a reasonable cost.

For further comprehension of the invention, and of the objects and advantages thereof, reference will be had to the following description and accompanying drawings, and to the appended claims in which the various novel features of the invention are more particularly set forth.

In the accompanying drawings forming a material part of this disclosure:—

Fig. 1 is a perspective view of a brassière constructed according to this invention.

Fig. 2 is a sectional view taken on the line 2—2 of Fig. 1.

Fig. 3 is an inside elevational view taken on the line 3—3 of Fig. 2.

Fig. 4 is a front elevational view of a foundation garment constructed according to this invention and shown substantially open.

Fig. 5 is a perspective view showing another application of the invention.

The brassière and other similar article, according to this invention, is characterized by a pair of bust cups 10 each of which consists of an outer substantially horse-shoe shaped section 10a of relatively strong and stiff material, and an inner section 10b of soft and pliant material filling in the space between the arms of the horse-shoe shaped section. As clearly illustrated in Figs. 1 and 2, sections 10a are each constructed of two pieces of material which are joined together at the bend of the horse shoe by a transverse line of stitching 10c. As shown in Fig. 1, these bust cups have been arranged upon a brasssière which has a web 11 between the bust cups and a body band 12 for extending around the body. The web 11 is provided with an elastic insert 11a along the lower portion thereof. The body band 12 also has an elastic insert 12a at the back and has an open section which may be closed by conventional hooks and eyes 13.

Another feature of the invention is the construction and arrangement of the shoulder straps for the brassière. More particularly, for each bust cup there is a shoulder strap 14 which is attached at its rear end 14a to the back of the body band 12, and at the front end is connected with a pair of diverging sections 14b, the ends of which are connected to the ends of the horse-shoe shaped relatively strong and stiff material section 10a. With this arrangement there is a tendency for the shoulder straps to hold the bust cups spaced apart.

The outer horse-shoe shaped sections 10a are formed from several layers of material (as for example the layers 10' and 10'' clearly shown in Fig. 2) which are joined together at adjacent sides to form the web 11 so that the web 11 is of reinforced relatively strong and stiff material. The inner section 10b is formed with a plurality of darts 15 to make it form fitting in the particular area of the papilla. The outer section 10a is reinforced and stiffened by a plurality of lines of stitches 16 which are partially concentric on the horse-shoe shape. That is, each line of these stitches is also of U-shape as clearly shown in Fig. 1.

The term "substantially of horse-shoe shape" has been used in this specification to include

forms which have curved arms and straight arms which converge towards each other, and thus restricting the open side of the horse-shoe form. In fact, a preferred embodiment of the invention is the use of a horse-shoe shape with straight converging arms as clearly shown on the drawings. There is a distinct advantage in restricting the open sides of the horse-shoe shapes. This advantage consists chiefly in restraining the busts from being forced too far upwards and instead forcing them outwards. Another feature of the invention is the formation of the top edge 10^z of the inner section 10^b to be concaved. When thus constructed it fits better against the top of the bust. Moreover, the fact that the sections 10^a are formed of two pieces as described and shown in the drawings results in that the base of the breast pocket stands out and offers substantial support to the breast when pull is exerted on the shoulder straps.

In Fig. 4 another embodiment of the invention is disclosed in which the features are applied to a long line brassière garment. This foundation garment has the bust cups 10 constructed as previously described, the component parts of which may be recognized by the identical reference numerals. This foundation garment consists of a broad and strong body band 12^b adapted to encircle one's body and give support to the diaphragm. The details of the foundation garment do not comprise a portion of this invention and will therefore be omitted in this specification.

In Fig. 5 a still further embodiment of the invention is disclosed in which the bust cups 10 are applied to a corselet.

The horse-shoe shaped hammock recommended for remedying and bringing to normal pendulous, drooping, flabby soft breasts; also remedies strained, torn ligaments, raising the bust to a position which is healthy, hygienic and conducive to good health, as well as stylish.

Comfort and relaxation of mammary ligaments which includes the fascia over the pectoralis, major and minor muscles which constitute a mammary hammock, lift upward and anteriorly yet by virtue of strong bilateral support prevent the breast from being displaced from into the axilla or from being forced into apposition with the breast of the opposite side. This position of the breast more closely resembles a naturally placed breast and by its elevation and omission of bilateral compression favors complete drainage and thus prevents stagnation or congestion of the breast. The mammary papilla is protected by a covering of non-abrasive material. The breast is kept up and toward the middle simulating the anatomical hammock which holds up the breast.

While we have illustrated and described the preferred embodiment of our invention, it is to be understood that we do not limit ourselves to the precise construction herein disclosed and the right is reserved to all changes and modifications coming within the scope of the invention as defined in the appended claims.

Having thus described our invention, what we claim as new, and desire to secure by United States Letters Patent is:—

1. In a brassière and the like, a pair of bust cups, each comprising an outer substantially horse-shoe shaped section of relatively stiff material, and an inner section of soft and flexible material completely filling in the space between the arms of the said horse-shoe shaped sections, each of said outer sections being comprised of two pieces joined at the bend of the horse shoe by a transverse line of stitching to cause the bend of the horse shoe to extend forwardly and to form substantial support for the breast, the upper edges of said horse-shoe shaped section and said soft and flexible material being concaved to allow said bust cups to lie flat against the top of the bust, a shoulder strap for each bust cup connected at its rear end to the body portion of said brassière and including at its front end a pair of diverging sections continuing from each shoulder strap and connected to the top edge portion of said horse-shoe shaped material at the ends of said concaved edges.

2. In a brassière and the like, a pair of bust cups, each comprising an outer substantially horse shoe shaped section of relatively stiff material, and an inner section of soft and flexible material completely filling in the space between the arms of the said horse shoe shaped sections, the upper edges of said horse shoe shaped section and said soft and flexible material being concaved to allow said bust cups to lie flat against the top of the bust, the adjacent edges of said bust cups extending toward each other and forming a web section which is connected together by a line of stitches extending from the top edge of the brassière down to a point substantially midway between the top edge and the bottom edge, a shoulder strap for each bust cup connected at its rear end to the body portion of said brassière and including at its front end a pair of diverging sections continuing from each shoulder strap and connected to the top edge portion of said horse shoe shaped material at the ends of said concaved edges.

3. In a briassière and the like, a pair of bust cups, each comprising an outer substantially horse shoe shaped section of relatively stiff material, and an inner section of soft and flexible material completely filling in the space between the arms of the said horse shoe shaped sections, the upper edges of said horse shoe shaped section and said soft and flexible material being concaved to allow said bust cups to lie flat against the top of the bust, the adjacent edges of said bust cups extending toward each other and forming a web section which is connected together by a line of stitches extending from the top edge of the brassière downwardly to a point substantially midway between the top edge and the bottom edge, and an elastic insert secured at its side edges between the bottom portion of said bust cups in order to support said bust substantially and allow a free chest movement during the process of breathing, a shoulder strap for each bust cup connected at its rear end to the body portion of said brassière and including at its front end a pair of diverging sections continuing from each shoulder strap and connected to the top edge portion of said horse shoe shaped material at the ends of said concaved edges.

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