

Improved underwire bra

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BACKGROUND OF THE INVENTION**Field of the Invention**

The present invention relates to an improved underwire bra, more particularly to a bra having two bra cups directly deposited on the lining, and the elastic cloth having the same contour and configuration as the bra covers the lining and the bra cups, and a whole-piece single-edge sewing is performed at the edge of the top section of the bra. Such bra structure is a whole-piece with which the wire is not exposed. In addition to its naturally showing the beauty of brassiere, it also can save the manufacturing cost and increase the production rate and the comfort of wearing, and particularly it features an economic way of production and has the effect of perfect fit without binding.

Description of the Prior Art

The female brassiere is an important item that decorates the shape of a woman's bust; and it does not only allow the growing breasts to develop properly by completely holding the breasts, but it also can avoid the external expansion and of the breast, and provide a bra for adults to show the erecting breast and the ditch of the bust. Therefore it is a daily necessity for women for years. Due to the influence of fashions, transparent, low-cut, and curve exposed brassiere generally embarrasses the users. The latest model of the brassiere has a big change in its design, and that is to hide the wire to provide an unaccentuated look and allow the user to go with the fashion. However, the conventional underwire bras have a structure as shown in Figures 1 and 2 and they generally have wire 11 along the periphery of the bra cup 12, and a piece

of cloth 13 in the front being formed into a lining 1, and such lining 2 having a shoulder strap 21 and a piece of cloth 22 at the back to go with the obverse cloth 2 that are sewed along their periphery S. Such structure accomplishes a bra model that hides the wire 11 of the bra. Please refer to Figure 2 for its
5 detailed structure and shape. Since the manufacture of such bra uses the method of sewing S the whole periphery, therefore its manufacturing is more complicate, which does not only affect the production efficiency and production value, but it also increases the cost for the complicate sewing. Therefore, products of this sort usually are expensive, and not economic for the
10 daily usage. In addition, the formation of the whole-piece bra has seams for the coupling of the back piece 22, and it does not offer a perfect fit for the curve, and it loses the beauty. Such uneven seams also generate an uncomfortable feeling when contacted with the user's skin. Therefore, it is necessary to improve the conventional bras.

15 In view of the shortcomings and inconvenience of the prior art mentioned above, which are the subjects of improvements for a long time, hence the inventor of the present invention based on years of experience accumulated from the engagement in the related industry conducted extensive research to resolve the foregoing shortcomings and invented the present
20 invention.

Therefore, the primary objective of the present invention is to provide an improved underwire bra particularly having two bra cups directly deposed on the lining, and the elastic cloth having the same contour and configuration as the bra covers the lining and the bra cups, and a whole-piece single-edge
25 sewing is performed at the edge of the top section of the bra. Such bra structure is a whole-piece with which the wire is not exposed. In addition to

its naturally showing the beauty of brassiere, it also can save the manufacturing cost and increase the production rate and the comfort of wearing, and particularly it features an economic way of production and has the effect of perfect fit without binding.

5 Another objective of the present invention is to provide an underwire bra that completely has no seam because the bra cups and the front piece are extended directly to a back piece and needs no coupling. It gives a very comfortable feeling when wearing, and a perfect fit for the curve provides an artistic look.

10 Another objective of the present invention is to restrict and prevent the turning over of the obverse cloth by having a strongly elastic segment of appropriate width extended at the lower edge of the obverse cloth, and it also reliably binds but creates no stress for reinforcing the positioning.

15 Another further objective of the present invention is to provide an underwire bra that can fully lift and support a woman's breast and prevent any outward expansion or downcast by using non-elastic steel plates as the isolating filling between the bra cups in order to ensure the constant distance between bra cups.

20 To make it easier for our examiner to understand the objective of the invention, structure, innovative features, and performance, we use a preferred embodiment together with the attached drawings for the detailed description of the invention.

BRIEF DESCRIPTION OF THE DRAWINGS

Other objects, features, and advantages of the invention will become apparent from the following detailed description of the preferred but
5 non-limiting embodiment. The description is made with reference to the accompanying drawings, in which:

FIG. 1 shows the diagram of the lining formation at the backside of a conventional bra structure

FIG. 2 shows the diagram of an assembled conventional bra

10 FIG. 3 shows the three-dimensional diagram of the disassembled parts of the structure according to the present invention (The lining at the back and the obverse cloth in the front of the bra).

FIG. 4 shows the front-view diagram of the backside and the front seam of the bra are sewed according to the present invention.

15 FIG. 5 shows the diagram of the assembled bra of another embodiment of the present invention.

FIG. 6 shows the rear-view diagram of the backside and the front seam of the bra are sewed according to the present invention.

20 FIG. 7 shows the front-view diagram of a long bra according to another embodiment of the present invention.

FIG. 8 shows the diagram of the interior of a long bra according to

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another embodiment of the present invention.

DESCRIPTION OF THE PREFERRED EMBODIMENT

Please refer to Figures 3 and 4. The underwire bra of the present invention mainly comprises a bra cup 32 having a wire 31 attached to it, and
5 together with a piece of properly cut elastic cloth 33 to couple with a lining 3 at the backside of the bra, and both lateral sides are extended to a back piece 34 as a whole piece. A non-elastic net piece 35 is deposited between the bra cups, and a piece of obverse cloth 4 having the same contour and configuration as the bra, and that is the curved cloth 41 formed (see Figure 3) completely covers the
10 whole lining 3 and the bra cups 32. By the single-edge sewing S at the upper section of the bra, the lining 3 and the obverse cloth 4 are extended to couple with a back piece 51 to form a whole-piece bra 5. Such bra 5 can be used directly or goes with a movable shoulder strap 6. The bra cup 32 can completely hold a woman's breast, and the whole bra 5 has a seamless look due
15 to the invisible wire 31, but still retains the reliability of focusing to lift a woman's breast and simplifies the production, lowers cost and enhances production efficiency.

Furthermore, please refer to Figure 5. A strongly elastic segment 43 of appropriate wide that is larger than the lining 3 is extended and deposited at the
20 lower edge of the obverse cloth 4. Besides, using the strongly elastic segment for the covering, it restricts and prevents the turning over of the obverse cloth 4 and give a reliable binding to the whole bra 7 but does not have any stress for the reinforcement of the positioning.

Further, when the user wears the bra, it gives the user a comfortable
25 feeling and when casual wear is needed, the wire in the bra cups can be

removed.

Therefore, in summation of the above description, the improved underwire bra of the present invention obviously simplifies its formation compared with the traditional underwire bras, and beautifies the curve of a woman's bust, and gives a perfect fit to it, and the comfort when wearing. The inventor of the present invention based on years of experience in the related industry conducted extensive research to enhance the structure of the storage rack herein which is hereby submitted for patent application.

While the invention has been described by way of example and in terms of a preferred embodiment, it is to be understood that the invention is not limited thereto. To the contrary, it is intended to cover various modifications and similar arrangements and procedures, and the scope of the appended claims therefore should be accorded the broadest interpretation so as to encompass all such modifications and similar arrangements and procedures.

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WHAT IS CLAIMED IS:

1. An improved bra, mainly comprising an underwire bra cup; a lining having a properly cut elastic cloth sewed on the back side of the bra; and an obverse elastic cloth having the same contour and configuration with the bra completely covers the lining and the underwire bra cup; and a back piece extended from the lining at the back and the obverse cloth in the front forming a whole-piece bra, such that the bra fully adopts a woman's bust and provides an underwire bra with seamless look, but it still retains the reliability of lifting and supporting a woman's breast, and such structure simplifies the manufacture, lowers the cost, and enhances the production efficiency of the bra.
2. The improved underwire bra as claimed in Claim 1, wherein the lower edge of the obverse cloth has a whole-piece elastic segment with appropriate width and strength, which is larger than the lining.
3. The improved underwire bra as claimed in Claim 1, wherein the lining uses a non-elastic steel plate as the isolating filling between the bra cups to keep a constant distance between the bra cups.
4. The improved underwire bra as claimed in Claim 1, wherein the obverse elastic cloth is an elastic knitted cloth.
5. The improved underwire bra as claimed in Claim 1, wherein the wire in the bra cup under the lining of the bra is removed, so that it is more comfortable and casual for wearing.