

(19)



(11)

EP 4 817 449 A1

(12)

EUROPEAN PATENT APPLICATION

(43) Date of publication:
07.10.2026 Bulletin 2026/41

(51) International Patent Classification (IPC):
A41C 3/00 (2006.01) A41C 3/12 (2006.01)

(21) Application number: **25168094.8**

(52) Cooperative Patent Classification (CPC):
A41C 3/0028; A41C 3/12

(22) Date of filing: **02.04.2025**

(84) Designated Contracting States:
**AL AT BE BG CH CY CZ DE DK EE ES FI FR GB
GR HR HU IE IS IT LI LT LU LV MC ME MK MT NL
NO PL PT RO RS SE SI SK SM TR**
Designated Extension States:
BA
Designated Validation States:
GE KH LA MA MD TN

(71) Applicant: **Peng, Xiaoni**
Weinan City, Shaanxi Province (CN)

(72) Inventor: **Peng, Xiaoni**
Weinan City, Shaanxi Province (CN)

(74) Representative: **Valet Patent Services Limited**
c/o Caya 83713X
Am Börstig 5
96052 Bamberg (DE)

(54) **CONVENIENT ADJUSTABLE SHAPER BRA**

(57) The invention discloses a Convenient Adjustable Shaper Bra, comprising a cup body and a support lining fixed on its front surface. The support lining includes a bottom band and lifting straps extending upward from both ends. Two harnesses are arranged on the sides of the cup body, with shoulder straps connecting the harness and cup body. The shoulder straps have multiple

connecting positions along their length, and the lifting straps have a detachable connecting structure. By adjusting the hook on the lifting strap to different positions, the cup body can be lifted as needed. Users can also install or remove a modesty panel between the cup body and support lining without taking off the bra, providing convenience and customization.

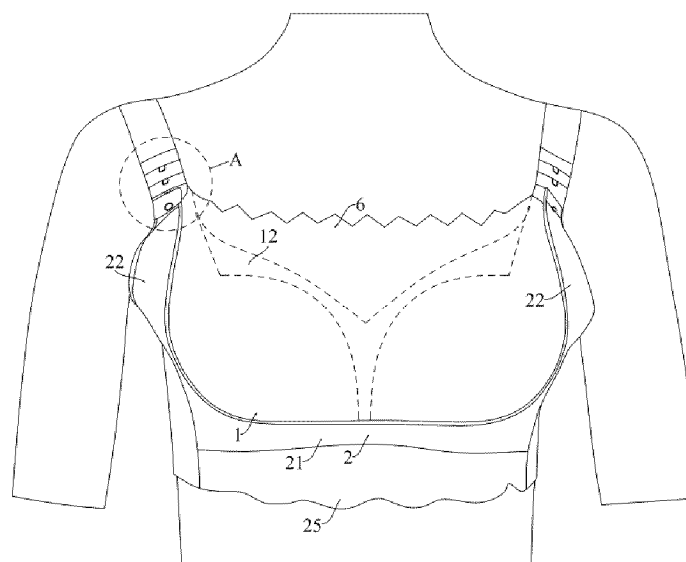


Figure 1

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Description

TECHNICAL FIELD

[0001] The present invention relates to the technical field of bras, and in particular to convenient adjustable shaper bra.

BACKGROUND

[0002] Generally, women wear bras. In addition to the basic protective effect on the breasts, the purpose of today's bras is to increase their physical appearance. However, most women's chest sizes and shapes are inconsistent. Therefore, some companies have developed bras with different types and functions such as sport types, functional types, steel rim types, and no steel rim types to meet different needs.

[0003] In the prior arts, regarding the lifting and shaping of the breasts, it is mainly achieved by setting steel rings, soft support lifting strips, palm-supported water drop-shaped pads, etc. on bras, or by widening the width of the side of the bras to return the excess fat and accessory breasts to the home position. However, the lifting structure of the above bras cannot be adjusted adaptively according to everyone's breast shape, and the need to lift the tightening range to reasonably adjust to the degree of personal needs, and the lifting range generally needs to be assisted by a certain method. It could be uncomfortable, or it cannot be adjusted to the degree of lifting that is satisfactory to users, and users cannot show their most perfect breast shape.

[0004] In addition, in the existing technology, many women have different needs to display sexiness on different occasions, such as sometimes they need to expose the cleavage, sometimes to cover the cleavage, and many people can only cover it with their hands, there is a risk of privacy leakage. Therefore, as shown in US Patent No. US8152591B2, a bra garment accessory is disclosed, in which a cloth sheet is added to the bras to cover the cleavage, however, with respect to the assembly of the auxiliary accessory, it requires to snap the connecting band loop around the outside of bras, and it is also necessary to connect one end to the front cleavage position of the bra. Because there are only three connections between the accessory and the bra, the structure is not stable enough, and such apparel accessories cannot match multiple styles of underwear, and the left and right movement and wrinkles seriously affect the aesthetics of wearing. In addition, it is impossible to assemble the bra directly when it is worn, and it needs to be assembled before wearing the bra. To some extent, it will also affect the normal wearing of the bra, and it is inconvenient to use. During use, it cannot be directly removed from the bra.

SUMMARY

[0005] In order to solve the above problems, the present invention proposes Convenient Adjustable Shaper Bra.

[0006] The technical solution adopted by the present invention is Convenient Adjustable Shaper Bra, including:

10 Cup Body

Support lining, mounted on a front surface of cup body and comprising at least a bottom band arranged to extend in a left-right direction, and a lifting strap respectively disposed at the left-right ends of the bottom band and extending upward, at least part of the lifting strap being resilient;

Harness, two of which are respectively arranged on the left and right sides of cup body, and the ends of the two harnesses are suitable for fastening to each other on the back of the human body;

shoulder strap, having two and both disposed between the harness and cup body, the connecting end of the shoulder strap and cup body being provided with a number of connection positions arranged at intervals along an extension direction of the shoulder strap, and the lifting strap being provided with a connection structure for fitting and dismounting the connection positions.

[0007] Several alternatives are also provided below, but not as additional limitations to the above-described overall scheme, but are merely further additions or preferences. Without technical or logical contradictions, the alternatives may be combined individually for the above-described overall scheme, or may be combined between multiple alternatives.

[0008] Preferably, the middle position of the upper end of the cup body is provided with a downward depression, and corresponds to the depressed area of the cleavage, shaper bra further includes a modesty panel, and modesty panel is detachably arranged in front of the cup body and covers the depressed area.

[0009] Preferably, modesty panel includes a main fabric lining, the left and right ends of the main fabric lining extend between the lifting strap and the cup body respectively, and the lower end of the main fabric lining extends between the bottom band and the cup body.

[0010] Preferably, the lower end of the main fabric lining is provided with a bottom edge, the left and right ends of the main fabric lining are respectively provided with side edges, the bottom edge is arranged between the lower belt and the cup body, and the side edge is arranged between the pull belt and the cup body.

[0011] Preferably, at least one first connecting buckle of the front surface of the cup body, the inner side of the pull belt is provided with at least one second connecting buckle, the side edge is provided with at least one third connecting buckle for matching with the first connecting

buckle, and at least one fourth connecting buckle for matching with the second connecting buckle, the third connecting buckle is arranged inside the side edge, the fourth connecting buckle is arranged outside the side edge.

[0012] Preferably, the front surface of the cup body is provided with at least one first velcro, the first velcro is hidden between the cup body and the pull belt, the inner sides of the left and right ends of the main fabric lining are provided with a second velcro, and the first velcro and the second velcro are correspondingly fitted.

[0013] Preferably, the connecting position is a shackle provided on the upper surface of the shoulder strap end, and the connection structure is a hook provided on the end of the lifting strap, and the hook is hooked on one of the shackle.

[0014] Preferably, a number of seam bindings on the shoulder strap are arranged in the extension direction of the shoulder strap, one end of the shackle is fixed in the seam binding and the shackle is attached to the upper surface of the shoulder strap.

[0015] Preferably, the left and right sides of the upper end of the cup body are respectively upper edges, one end of the shoulder strap is fixed to the upper edge, cup body includes two bowl-shaped elastic breast supports, the upper surfaces of the two elastic breast supports are fixed with lace overlay, the left and right sides of the upper end of lace overlay respectively extend to the upper edge, and the lower end of lace overlay extends to the coverage area of the lifting cloth.

[0016] More preferably, the whole lifting lining is resilient, the shoulder straps and the harnesses are resilient, and the main fabric lining is a lace cloth.

[0017] Compared with the prior arts, the present invention has the following beneficial effects:

1, The front surface of the cup body is provided with an elastic support lining. The left and right ends of the support lining are provided with a lifting strap to cooperate in lifting. A number of mutually spaced shackles are set at the connection between the shoulder strap and the cup body. Since the bottom band of the support lining is fixed to the cup body, the lower part of the lifting strap is also fixed to cup body. Therefore, When the hook at the upper end of the lifting strap is hung on the shackle at different positions, the amplitude of the lifting cloth on cup body can be adjusted, the hook is hung on the shackle at the upper position, the lifting amplitude is high, and the hook is hung on the shackle at the lower position, the lifting amplitude is low, which allows the user to freely adjust shaping and lifting effect of the bra on the breast according to their needs;

2, Since both shoulder straps are individually provided with multiple shackles, if the left and right breasts are asymmetrical in size, the pulling effect on both breasts can also be set individually accord-

ing to the needs, thus making the two breasts pulled to the same effect and more aesthetically pleasing;

3, By setting a modesty panel between the cup body and the support lining, the modesty panel is fixed to cup body by means of snap fasteners or a velcro, and the user can install the modesty panel on cup body or remove it from cup body according to the needs of sexy display (whether the cleavage is displayed or not). The bra does not need to be removed during the installation and removal process, which is convenient to use.

BRIEF DESCRIPTION OF THE DRAWINGS

[0018] For a clearer description of the technical scheme of the embodiments of the utility model or the prior art, a brief description of the drawings required for illustration of the embodiments or the prior art is given, obviously, the embodiments described below are only part of the embodiments of the utility model, and for those skilled in the field, other drawings can be obtained according to these structures without creative labor.

Figure 1 is a schematic diagram of a front viewing angle structure of a bra with a modesty panel on a human body in an embodiment of the present application;

Figure 2 is a partial enlarged view of Part A in Figure 1;

Figure 3 is a schematic diagram of a structure in which a bra with a modesty panel is worn on a human body and one of the corners of the modesty panel is opened outward in an embodiment of the present application;

Figure 4 is a partial enlarged view of Part B in Figure 3;

Figure 5 is a schematic diagram of the structure of a bra to be worn on a human body with a modesty panel removed in an embodiment of the present application;

Figure 6 is a schematic diagram of a rear viewing angle structure of a bra worn on a human body in an embodiment of the present application;

Figure 7 is a schematic plan view of a modesty panel installed with a snap fastener buckle in an embodiment of the present application;

Figure 8 is a plan schematic diagram of a modesty panel installed with a velcro in an embodiment of the present application;

Figure 9 is a schematic diagram of a front viewing angle structure of the bra in an open state according to an embodiment of the present disclosure;

Figure 10 is a partial enlarged view of Part C in Figure 9;

Figure 11 is a schematic diagram of a rear viewing angle structure of a bra in an open state in an embodiment of the present application;

Figure 12 is a schematic diagram of the structure of the bra using a snap fastener structure in an embodiment of the present application after part of the support lining is opened;

Figure 13 is a schematic diagram of the structure of a bra using a velcro structure in an embodiment of the present application after part of the support lining is opened.

[0019] It is marked in the drawings: 1-Cup Body, 11-Upper Edge, 12-Lace Overlay, 121-First Connecting Buckle, 122-First Velcro, 13-Side Boning, 14-Connecting Fabric, 15-underwire, 16-Bottom, 17-Side Support, 2-support lining, 21-Bottom Band, 22-Lifting Straps, 23-End Piece, 24-Hook, 25-Lower Lace Trim, 26-Second Connecting Buckle, 3-Shoulder Strap, 31-Shackle, 32-Seam Binding, 4-First Harness, 41-First Connecting Part, 411-Hook-and-eye Closure, 5-Second Harness, 51-Second Connecting Part, 511-Hook-and-eye Fastener, 6-Modesty Panel, 61-Main Lining, 62-Side Edge, 63-Bottomed Edge, 64-Third connecting buckle, 65-Fourth Connecting buckle, 66-Second Velcro.

[0020] The realization of the objects, functional features and advantages of the present invention will be further described in conjunction with the embodiments with reference to the drawings.

DETAILED DESCRIPTION

[0021] With reference to the drawings in the embodiments of the present invention, the following provides a clear and complete description of the technical solutions in the embodiments of the present invention. Obviously, the described embodiment is merely part of the embodiments of the present invention and not all of them. All other embodiments obtained by persons of ordinary skill in the art based on the embodiments of the present invention without creative efforts shall fall within the protection scope of the present invention.

[0022] It should be noted that all the directional indicators (such as up, down, left, right, front, back...) in the embodiments of the present invention are only used to explain the relative position relationship, movement situation, etc. between the various components under a certain specific gesture (as shown in the drawings), and if the specific gesture changes, the directional indicator also changes accordingly.

[0023] In addition, descriptions referring to "first," "second," etc., in the present invention are for descriptive purposes only and are not to be construed as indicating or implying their relative importance or as implying an indication of the number of technical features indicated. Thus, features defining "first," "second" may include at least one of the features explicitly or implicitly. In addition, the technical solutions between the various embodiments can be combined with each other, but must be based on what one of the ordinary skill in the art can achieve. When the combination of technical solutions is

contradictory or impossible to achieve, it should be considered that such a combination of technical solutions does not exist and is not within the scope of protection required by the present invention.

[0024] Specific implementing scheme: Referring to Figures 1-13, the present invention is Convenient Adjustable Shaper Bra comprising:

cup body 1;

Carry lining cloth 2 mounted on the front surface of cup body 1 and including at least a bottom band 21 arranged in a left-right direction and a lifting strap 22 respectively arranged at the left-right ends of the bottom band 21 and extending upward, at least part of the support lining 2 being resilient;

harness, two of which are respectively arranged on the left and right sides of cup body 1, and the ends of the two straps are suitable for fastening to each other on the back of the human body;

Shoulder strap 3 is provided with two strap and cup body 1, the connecting end of the shoulder strap 3 and cup body 1 is provided with a number of connecting positions arranged at intervals along the extension direction of the shoulder strap 3, and the lifting strap 22 is provided with a connecting structure for detachable connection of the mating and connecting positions.

[0025] As a preferred implementation of this embodiment, please refer to Figure 5, it can be seen that the middle position of the upper end of cup body 1 is provided with a downward depression, and corresponds to the depressed area of the human cleavage.

[0026] Then, referring to Figure 1, it can be seen that in this embodiment, the shaper bra also includes a modesty panel 6, which is detachably arranged in front of cup body 1 and covers the depressed area.

[0027] In this embodiment, modesty panel 6 includes a main fabric lining 61, with the left and right ends of the main fabric lining 61 extending between the lifting strap 22 and cup body 1, respectively, and the lower end of the main fabric lining 61 extending between the bottom band 21 and cup body 1.

[0028] Here, by hiding the lower end and the left and right ends of support main fabric lining 61 between cup body 1 and support lining 2, on the one hand, it is more beautiful, and the structure of the fitting assembly on support main fabric lining 61 can be set in the above-mentioned hidden position (the lower end or the left and right ends of lifting main fabric lining 61). On the other hand, the exposed part of the front end of cup body 1 can also be covered by lifting main fabric lining 61, so that the texture and beauty are more obvious when worn.

[0029] Regarding the assembly between the modesty panel 6 and cup body 1, two assembly methods are given as examples in this text, namely, the assembly of the snap fastener and the assembly of the velcro. Of course, in practical applications, other connection structures can

also be selected.

[0030] When the connection between the modesty panel 6 and cup body 1 is completed with snap fastener construction:

Referring to Figures 3, 7 and 12, it can be seen that in this embodiment, the lower end of main fabric lining 61 is provided with a bottom edge 63, the left and right ends of main fabric lining 61 are respectively provided with side edges 62, bottom edge 63 is arranged between lower belt 21 and cup body 1, and side edge 62 is arranged between lifting strap 22 and cup body 1.

[0031] Then, in this embodiment, a first connecting buckle 121 is provided on the front surface of cup body 1, the first connecting buckle 121 corresponds to the lower position of lifting strap 22, and a second connecting buckle 26 is provided on the upper inner side of lifting strap 22. Side edge 62 is provided with a third connecting buckle 64 for fastening to mate with the first connecting buckle 121, and a fourth connecting buckle 65 for fastening to mate with second connecting buckle 26, the third connecting buckle 64 is arranged inside the side edge 62, and the fourth connecting buckle 65 is arranged outside side edge 62.

[0032] When it is necessary to install modesty panel 6 on cup body 1, first place two side edges 62 of main fabric lining 61 between the lifting strap 22 and cup body 1, and place the bottom edge 63 of main fabric lining 61 between the lower belt 21 and cup body 1; then, fasten the first connecting buckle 121 and the third connecting buckle 64, and fasten the second connecting buckle 26 and the fourth connecting buckle 65 to complete the assembly between modesty panel 6 and cup body 1.

[0033] When it is necessary to remove modesty panel 6, the fastening of the first connecting buckle 121 and the third connecting buckle 64 and the fastening of the second connecting buckle 26 and the fourth connecting buckle 65 can be manually released.

[0034] When the connection between modesty panel 6 and cup body 1 is completed with the structure of the velcro:

Referring to Figures 8 and 13, it can be seen that in this embodiment, the front surface of cup body 1 is provided with a first velcro 122, the first velcro 122 is hidden between cup body 1 and lifting strap 22, the inner sides of the left and right ends of main fabric lining 61 are provided with a second velcro 66, and the first velcro 122 and the second velcro 66 are correspondingly fitted.

[0035] When it is necessary to install modesty panel 6 on cup body 1, two side edges 62 of main fabric lining 61 are placed between lifting strap 22 and cup body 1, and bottom edge 63 of the main fabric lining 61 is placed between the lower belt 21 and cup body 1. Note that during the placement of main fabric lining 61, it is necessary to make the first velcro 122 on cup body 1 and the second velcro 66 on main fabric lining 61 correspond; then, the assembly between modesty panel 6 and cup body 1 can be completed by pressing the two side edges 62 of main fabric lining 61 slightly.

[0036] When it is necessary to remove modesty panel 6, the bond between the first velcro 122 and the second velcro 66 can be manually removed.

[0037] Next, referring to Figures 1-5, 9 and 10, it can be seen that in this embodiment, the connecting position is a hook ring 31 arranged on the upper surface of the end of shoulder strap 3, the connecting structure is a hook 24 arranged on the end of the lifting strap 22, and hook 24 is hooked on one of hook rings 31.

[0038] In addition, a number of seam binding 32 on the shoulder strap 3 are arranged in the extension direction of shoulder strap 3, one end of the shackle 31 is fixed in seam binding 32, and shackle 31 is attached to the upper surface of shoulder strap 3.

[0039] Here, seam binding 32 has overlapping parts with each other, one end of the shackle 31 is inserted into the overlapping position, and then the seam is fixed to ensure that the shackle 31 is firmly fixed to the shoulder strap 3.

[0040] Please refer to Figures 1 and 2, in this embodiment, the end of lifting strap 22 is provided with end piece 23, one end of the hook 24 extends into the inside of end piece 23 and is sewn and fixed.

[0041] Note that since hook 24 is attached to shackle 31, the interaction force between hook 24 and shackle 31 is very large during the wearing of the bra due to the continuous lifting of support lining 2. In order to prevent the connection between hook 24 and shackle 31 from collapsing during the wearing process, the connection strength between shackle 31 and shoulder strap 3, as well as the connection strength between hook 24 and lifting strap 22 must be guaranteed.

[0042] In this embodiment, since bottom band 21 of support lining 2 is fixed on cup body 1, and the lower part of lifting strap 22 is also fixed on cup body 1, when hook 24 at the upper end of lifting strap 22 is hung on hook 31 in different positions, the amplitude of lifting of support lining 2 on cup body 1 can be adjusted. When hook 24 is hung on hook 31 in the upper position, and the lifting amplitude is high. When hook 24 is hung on hook 31 in the lower position, and the lifting amplitude is low, so that the user can freely adjust the shape and lifting effect of the bra on the breast according to their own needs.

[0043] Referring to Figures 2 and 12, it can be seen that in this embodiment, the lower belt 21 is fixed to cup body 1 by sewing, the lower part of lifting strap 22 is fixed to cup body 1 by sewing, and the upper part of lifting strap 22 is not fixed to cup body 1. Therefore, when it is necessary to adjust the position of hook 24 corresponding to hook ring 31, the upper part of lifting strap 22 can be grasped by hand for easier operation.

[0044] Next, please refer to Figures 3, 5, 9 and 11. It can be seen that in this embodiment, the upper end of cup body 1 is left and right sides of the upper edge 11, one end of shoulder strap 3 is fixed to the upper edge 11, cup body 1 includes two bowl-shaped elastic breast supports, the upper surfaces of the two elastic breast supports are fixed with lace overlay 12, the left and right sides of the upper

end of lace overlay 12 extend to upper edge 11, and the lower end of lace overlay 12 extends to the coverage area of support lining 2.

[0045] In addition, in order to secure the position of the elastic breast support and strengthen the overall structural strength of the bra, in this embodiment, side support 17 is disposed on the side of the elastic breast support, and bottom boning 16 is disposed on the lower side of the elastic breast support.

[0046] Moreover, in this embodiment, connecting fabric 14 is fixedly arranged under the elastic breast support, the lower end of connecting fabric 14 can selectively set underwire 15 according to the needs, and the setting of underwire 15 can strengthen the overall structural strength of the bra, and is not prone to deformation.

[0047] Then, referring to Figures 3 and 6, it can be seen that in this embodiment, the two harnesses are first harness 4 and second harness 5, respectively, wherein one end of first harness 4 is fixed on the left side of the connecting fabric 14 and one end of second harness 5 is fixed on the right side of connecting fabric 14. Moreover, in order to increase the structural strength of the connection of the harness and connecting fabric 14, in this embodiment, the connection is provided with side boning 13.

[0048] Next, in this embodiment, the free end of first harness 4 is provided with a first connection part 41, the free end of second harness 5 is provided with a second connection part 51, second connection part 51 is provided with hook-and-eye closure 411, and second connection part 51 is provided with a number of row-spaced hook-and-eye fastener 511. The fixing between the connection part 41 and second connection part 51 can be accomplished by the hanging of hook-and-eye closure 411 and hook-and-eye fastener 511. Moreover, the strap tightness can be freely adjusted by adjusting the position of the hook-and-eye closure 411 corresponding to the attached hook-and-eye fastener 511. Note that the connection structure of first harness 4 and second harness 5 belongs to the prior art, so it is simply stated above.

[0049] More specifically, in this embodiment, the whole lifting lining 2 is elastic, the shoulder strap 3 and the harness are elastic, the main fabric lining 61 is a lace cloth, and the lower end of the bottom band 21 is fixedly provided with a lower lace trim 25.

[0050] The above description of the present invention, Convenient Adjustable Shaper Bra, is only a preferred embodiment of the present invention, and does not limit the scope of the patent of the present invention. Any equivalent structural change made by using the description and drawings of the present invention or directly/indirectly applied in other related technical fields under the concept of the present invention is included in the scope of patent protection of the present invention.

Claims

1. Convenient Adjustable Shaper bra is **characterized in that**, comprising:

Cup Body

Support lining fixed to the front surface of cup body and including at least a bottom band arranged in a left-right direction and a lifting strap arranged at the left-right ends of the bottom band and extending upward, at least some of support lining being resilient;

Harness, two of which are respectively arranged on the left and right sides of cup body, and the ends of the two harnesses are suitable for fastening to each other on the back of the human body;

Shoulder strap, having two and both disposed between the harness and cup body, the connecting end of the shoulder strap and cup body being provided with a number of connection positions arranged at intervals along an extension direction of the shoulder strap, and the lifting strap being provided with a connection structure for fitting and dismounting the connection positions.

2. Convenient Adjustable Shaper Bra according to claim 1, **characterized in that** the middle position of the upper end of cup body is provided with a downward depression, and corresponding to the depressed area of the human cleavage, the shaper bra also includes a modesty panel, the modesty panel is detachably arranged in front of cup body, and covers the depressed area.
3. Convenient Adjustable Shaper Bra according to claim 2, is **characterized in that** modesty panel comprises a lining cloth main body, the left and right ends of the lining cloth main body respectively extend between the lifting strap and cup body, and the lower end of the lining cloth main body extends between the bottom band and cup body.
4. Convenient Adjustable Shaper Bra according to claim 3, **characterized in that** the lower end of the main fabric lining is provided with a bottom edge, the left and right ends of the main fabric lining are respectively provided with side edges, the bottom edge is arranged between the lower belt and cup body, and the side edge is arranged between the pull belt and cup body.
5. Convenient Adjustable Shaper Bra according to claim 4, is **characterized in that** at least one first connecting buckle of the front surface of cup body is provided on the inner side of the pull belt, at least one second connecting buckle is provided on the side

edge, at least one third connecting buckle for matching the first connecting buckle, and at least one fourth connecting buckle for matching the second connecting buckle, the third connecting buckle is arranged on the inner side of the side edge, and the fourth connecting buckle is arranged on the outer side of the side edge. 5

6. Convenient Adjustable Shaper Bra according to claim 3, **characterized in that** the front surface of the cup body is provided with at least a first velcro, the first velcro is hidden between the cup body and the pull belt, the inner sides of the left and right ends of the main fabric lining are provided with a second velcro, and the first velcro and the second velcro are correspondingly fitted. 10 15
7. Convenient Adjustable Shaper Bra according to any one of claims 1-6, is **characterized in that** the connecting position is a shackle provided on the upper surface of the shoulder strap end, the connecting structure is a hook provided on the end of the lifting strap, and the hook is hooked on one of the shackle. 20
8. Convenient Adjustable Shaper Bra according to claim 7, is **characterized in that** a number of seam bindings are arranged on the shoulder strap in the extension direction of the shoulder strap, one end of the shackle is fixed in the seam binding, and the shackle is attached to the upper surface of the shoulder strap. 25 30
9. Convenient Adjustable Shaper Bra, according to claim 1, is **characterized in that** the upper ends of the cup body are left and right sides of the upper edge, one end of the shoulder strap is fixed on the upper edge, cup body includes two bowl-shaped elastic breast supports, the upper surfaces of the two elastic breast supports are fixed with lace overlay, the left and right sides of the upper end of lace overlay respectively extend to the upper edge, and the lower end of lace overlay extends to the coverage area of the support lining. 35 40
10. Convenient Adjustable Shaper Bra, according to claim 3, is **characterized in that** the whole of the support lining is resilient, the shoulder strap and the harnesses are resilient, and the main fabric lining is lace cloth. 45 50

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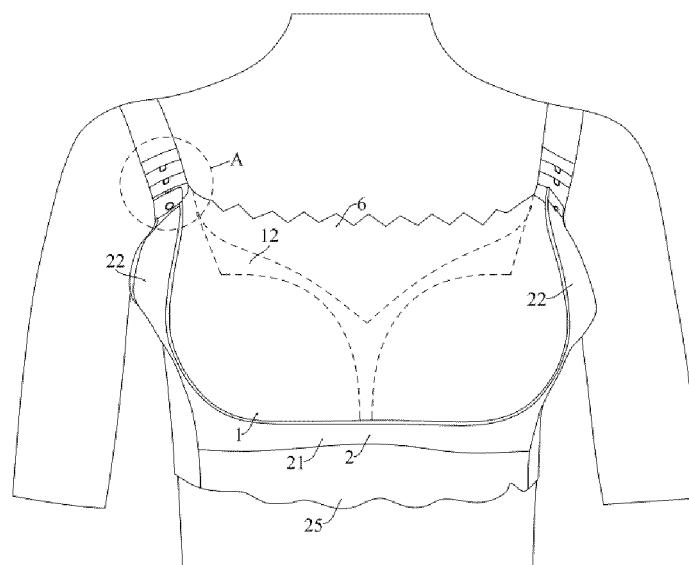


Figure 1

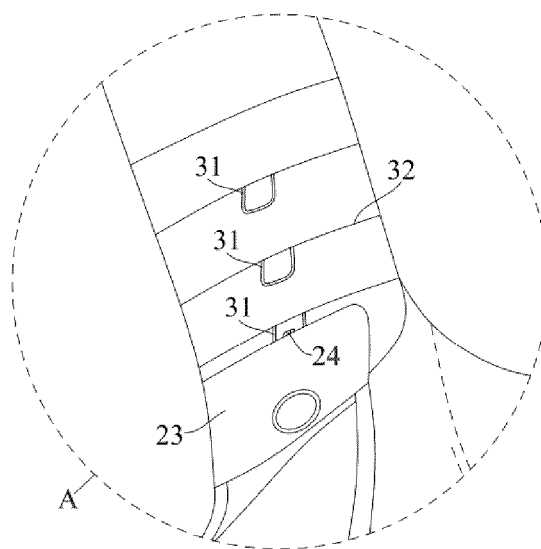


Figure 2

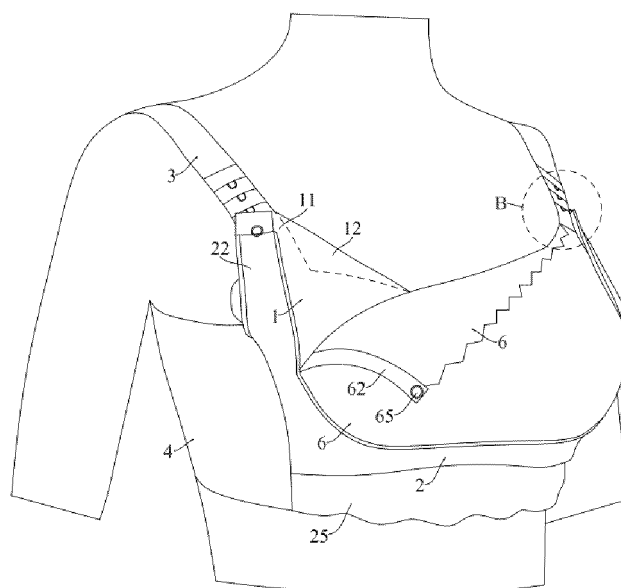


Figure 3

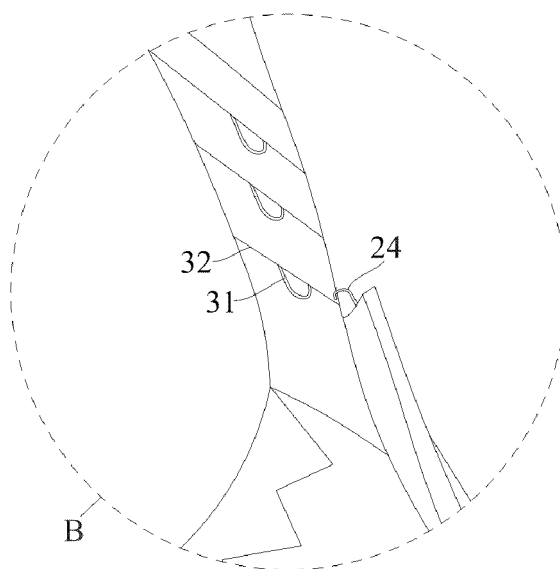


Figure 4

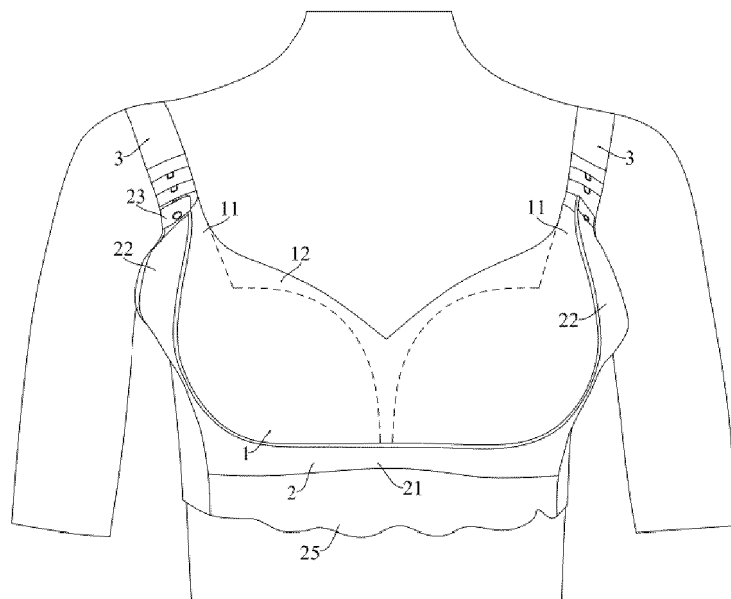


Figure 5

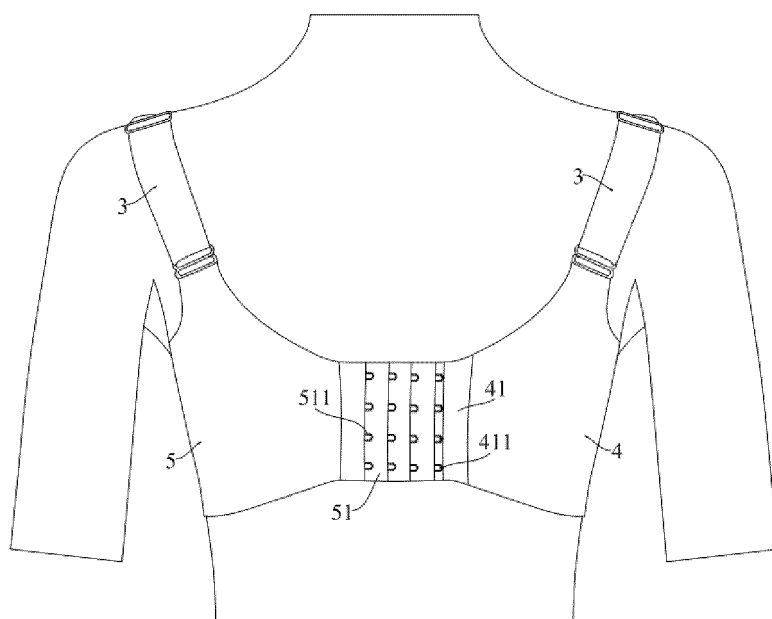


Figure 6

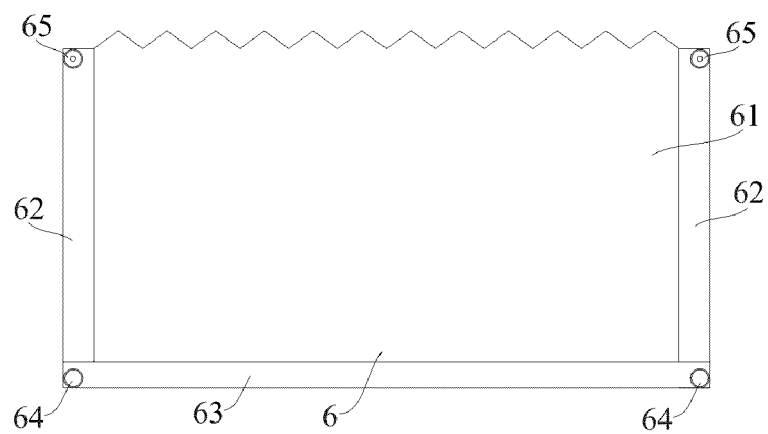


Figure 7

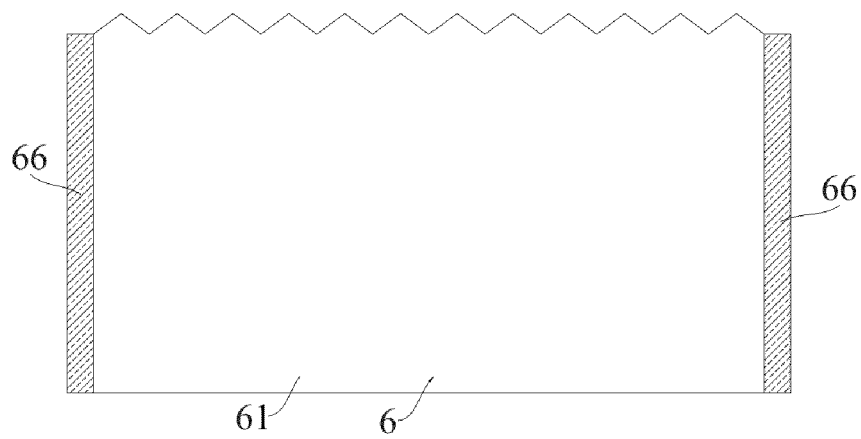


Figure 8

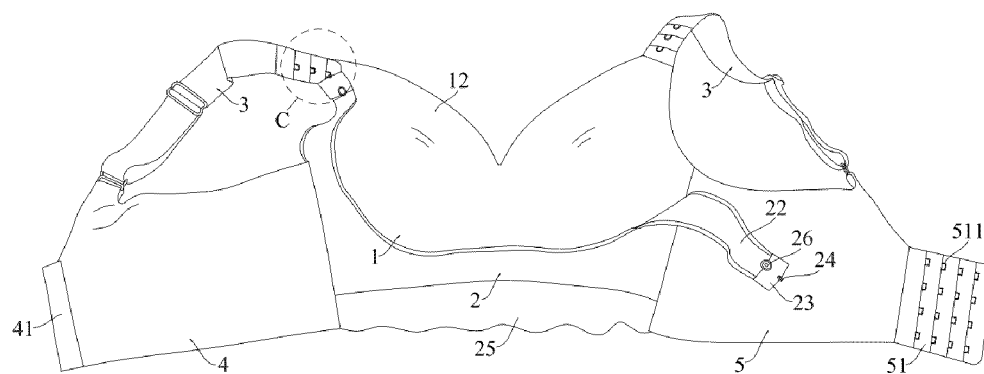


Figure 9

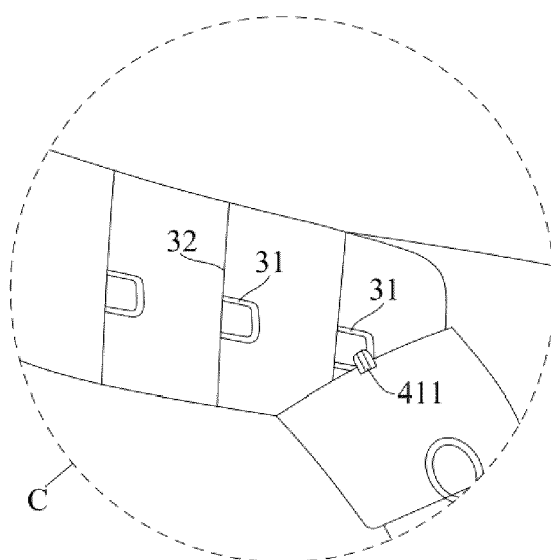


Figure 10

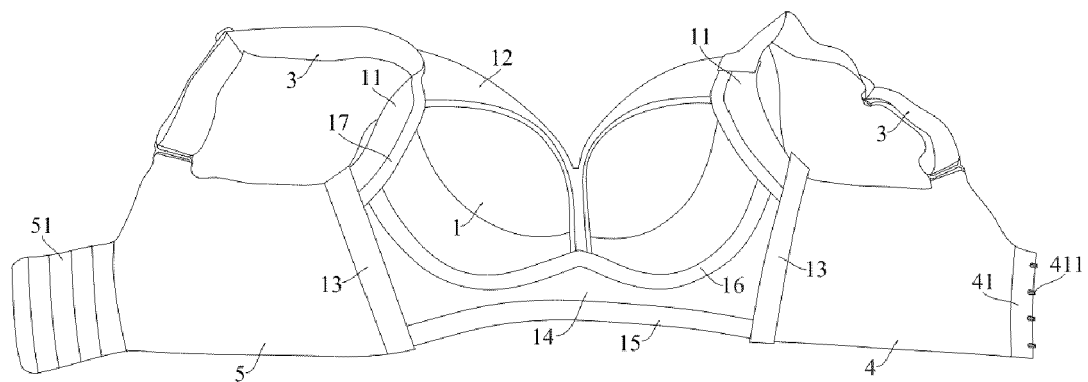


Figure 11

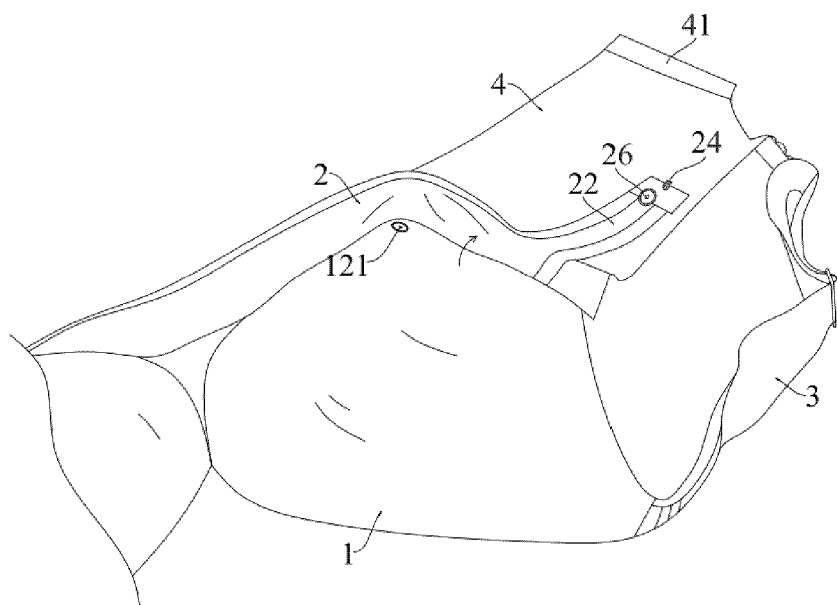


Figure 12

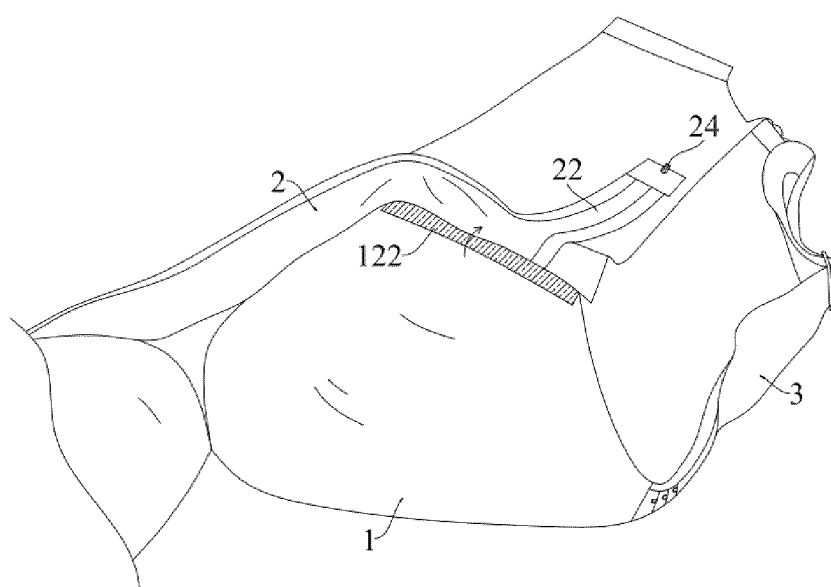


Figure 13



EUROPEAN SEARCH REPORT

Application Number

EP 25 16 8094

DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
X	CN 218 605 164 U (WANG RUXIA) 14 March 2023 (2023-03-14) * figures 1, 2 * -----	1-10	INV. A41C3/00 A41C3/12
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A	JP 2008 156783 A (WITH & CO LTD) 10 July 2008 (2008-07-10) * figure 4 * -----	2-6	
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The present search report has been drawn up for all claims			
Place of search		Date of completion of the search	Examiner
The Hague		11 August 2025	Krüger, Sophia
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REFERENCES CITED IN THE DESCRIPTION

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