

Self-lock Antiskid Adjusting Buckle

Field of Technology:

The present invention relates to a Self-lock Antiskid Adjusting Buckle that falls into the category of garment and dress accessories in particular.

Background of Technology:

To ensure comfort, conventional underwear such as brasseries usually has front buckles to link underwear bra cups. Such linking buckles cannot adjust length and size and cannot adjust the distance between bra cups. Though some underwear bra cups have adjusting buckles, yet conventional adjusting buckles are inconvenient and make it difficult for wearers to adjust. With ever-growing requirements on underwear comfort, attractiveness and fitness, it is required to have a kind of easy-to-adjust, attractive, reliable and decorative self-lock adjusting buckles to flexibly adjust the distance between bra cups for underwear such as brasseries. The inventor of the present invention provides a "self-lock antiskid buckle" in China Patent No. 0320118861.7 that achieves the function of flexibly adjusting sizes. However, the technical solution also has some drawbacks in that it is inconvenient in processing.

Summary of the Invention:

The objective of the present invention is to provide a self-lock antiskid adjusting buckle that features easy processing and low processing cost and enables wearers to adjust sizes flexibly according to their body shape and needs.

The objective of the present invention is achieved in the following manner:

A self-lock antiskid adjusting buckle which comprises buckle body and self-lock horizontal bar, wherein the said self-lock horizontal bar is movable self-lock horizontal bar located in the lock body.

Sliding channels are provided symmetrically at the side of the said buckle body and the two edges of the said self-lock horizontal bar are plugged into the sliding channels.

The two edges of the said self-lock horizontal bar are smooth edges.

Single-side or double-side saw tooth antiskid teeth are provided on the edges of the said self-lock horizontal bar.

The upper surface of the said buckle body is smoothing plane or plane decorated with color patterns.

The upper surface of the said buckle body is embedded with adornments.

The present invention makes it easier to adjust distance between bra cups for underwear such as corset; enables wearers to adjust sizes flexibly according to their body shape and

needs; features easy adjustment, processing and low processing cost; improves aesthetic effect, fitness and comfort.

Description of Enclosed Drawings:

Fig.1 is the diagram showing the structure of the present invention.

Fig.2 is the diagram showing steps on how the present invention is operated.

Fig.3 is the C-C cross-section of the present invention.

Fig.4 is the diagram showing the actual application of the present invention on bras.

Preferred Embodiments:

A detailed description of preferred embodiments in the present invention based on the description of Fig.1, 2, 3 and 4 is given below:

The buckle (1) in the present invention is made of metal or plastics via punching or casting process. The buckle body (1) is a rectangular framework and the said self-lock horizontal bar (2) is located in the rectangular framework; like existing technology, there are two self-lock horizontal bars. Sliding channels (3) are provided symmetrically at the side of the said buckle body (1), wherein two sliding channels (3) can be designed, and the two edges of the said self-lock horizontal bar (2) are plugged in sliding channels

(3), which enables self-lock horizontal bar (2) to slide in the buckle body (1) flexibly and thus achieves the adjusting functions of the present invention. The two edges (5) of the said self-lock horizontal bar (2) are smooth edges. To further improve the locking functions of the present invention, single-side or double-side saw tooth antiskid teeth are provided on the edges (5) of the said self-lock horizontal bar (2). To achieve decorative effect for the present invention, the upper surface (4) of the said buckle body (1) is designed as smooth plane or plane with color patterns, or the upper surface (4) of the said buckle body (1) is embedded with adornments.

Application of the present invention with corset as an example: As shown in Fig.2, 3 and 4, fix the device in the present invention on the braided band (6) that link two bra cups; pull at position (A) on braided band (6) and self-lock horizontal bar (2) will be moved by braided band (6) in the direction opposite to direction (C); as shown in Fig.3, braided band (6) can be pulled flexibly; when pulling at position (B) on braided band (6), self-lock horizontal bar (2) will be moved by braided band (6) in direction (C), self-lock horizontal bar (2) and buckle body (1) will clamp braided band (6). If antiskid teeth are provided at the edge (5) of self-lock horizontal bar (2), antiskid teeth may be further embedded in braided band (6) and better restrict the sliding of braided band (6); as a result, higher pulling force results in firmer self lock. When used to link left and right bra cups in underwear such as corset (7), the present

invention can substitute ordinary linking buckles; as shown in Fig.4, its reliable self-lock performance may improve safety of underwear and makes it easier to adjust the distance between bra cups according to the body shape and habit of the wearer. Furthermore, the adornments (8) on buckle body (1) in the present invention improves aesthetic effect; integrates self-lock function with decorative function; offers the wearer an experience of fitness, safety, attractiveness and elegance, and thus achieves a flawless combination between garment function, comfort and decorative effect.

Claims

1. A self-lock antiskid adjusting buckle which comprises buckle body (1) and self-lock horizontal bar (2), wherein the said self-lock horizontal bar (2) is movable self-lock horizontal bar located in the lock body (1).
2. The self-lock antiskid adjusting buckle of Claim 1, wherein sliding channels (3) are provided symmetrically at the side of the said buckle body (1) and the two edges of the said self-lock horizontal bar (2) are plugged in sliding channels (3).
3. The self-lock antiskid adjusting buckle of Claim 1 or Claim 2, wherein the two edges (5) of the said self-lock horizontal bar (2) are smooth edges.
4. The self-lock antiskid adjusting buckle of Claim 1 or Claim 2, wherein single-side or double-side sawtooth antiskid teeth are provided on the edges (5) of the said self-lock horizontal bar (2).
5. The self-lock antiskid adjusting buckles of Claim 1 or Claim 2, wherein the upper surface (4) of the said buckle body (1) is smooth plane or plane with color patterns.
6. The self-lock antiskid adjusting buckle of Claim 1 or Claim 2, wherein the upper surface (4) of the said buckle body (1) is embedded with adornments (8).