A front perspective drawing showing a typical bra design and the names of bra components used in the specification.
FIG. 1: A front perspective drawing showing a typical bra design and the names of bra components used in the specification.
FIG. 2: A photograph showing a bra support component with a lining stitched over it.

FIG. 3: A photograph showing a bra band component with a lining created by folding over the main bra fabric (top image), in comparison with a conventional non-lined band (bottom image).
FIG. 4: A photograph showing a bra support component with a lining created by folding a main bra fabric (top image), in comparison with a conventional unlined "brushed" support component (bottom image).

FIG. 5: A photograph showing a center power mesh with a natural lining over it.
FIG. 6: A conventional non-lined center power mesh.

FIG. 7: A photograph showing a hook strap with a lining over it (top), in comparison with a non-lined, brushed hook strap (bottom).
BRA WITH FULL LINING IN NATURAL MATERIALS

CROSS REFERENCE TO OTHER APPLICATIONS

[0001] Provisional application 61/630,496 Date: Dec. 14, 2011

STATEMENT REGARDING FEDERALLY SPONSORED RESEARCH OR DEVELOPMENT

[0003] Not applicable.

THE NAMES OF THE PARTIES TO A JOINT RESEARCH AGREEMENT

[0004] Not applicable.

INCORPORATION-BY-REFERENCE OF MATERIAL SUBMITTED ON A COMPACT DISC

[0005] Not applicable.

BACKGROUND OF THE INVENTION

[0006] This invention is in the field of bras with liners made of natural materials. Class 450.
[0007] Most bra garments on the market, particularly those that are molded or padded, are made with synthetic materials. These synthetic materials—such as nylon, polypropylene, polyester—are present in the cups, wings, under bust band and other parts of the bra, as bra components that are created for support, fastening and aesthetic features. But these synthetic materials may cause discomfort and adverse reactions to the skin of some wearers. Synthetic material bra may also cause a "sweaty" feeling as the material may be non absorbent. Even branded "cotton" bras that are molded may have cotton only on the outside (front of the bra) and may have synthetic materials touching the skin. Even if the bra is made of only cotton fabric, it may yet have elastic bands and hook straps that are synthetic in nature and that may cause adverse reactions to the skin for some wearer.

[0008] This invention seeks to reduce the touch of these synthetic materials to the skin by lining the inner side of the bra component with natural materials (fibers), if the bra component is made of a synthetic material. This invention provides a bra with natural materials all across the bra body touching the skin.

[0009] A patent search shows only one related invention (application Ser. No. 12/573,306 Filed Oct. 5, 2009 Inventor: Frye, Donna J.) which seeks to provide similar comfort in a bra, but with discrete pieces of lining that must be inserted or attached by the wearer. The invention is this specification is different in that it is a bra which has a lining material that is attached to the bra itself, with no lining action needed by the wearer, and that it covers the entire bra body.

BRIEF SUMMARY OF THE INVENTION

[0010] The bra in this invention comprises a standard bra of two cups, an under bust support and fastening, each of which can be any style, with a full attached lining(s) on all of the inside of the bra body, with the lining(s) made of natural materials to cover the synthetic material bra components that might be used in the bra.

[0011] The bra in this invention provides the touch of natural material to the skin of the wearer. It seeks to reduce the irritation caused by the touch of synthetic materials for some wearers, to give more comfort, breathability or sweat absorption, while maintaining aesthetic and support features of the bra.

[0012] The natural material used for the linings and the rest of the bra body touching the skin can be cotton, modal, bamboo, silk or a similar material. These materials may be certified organic or not. The lining(s) is permanently attached to the bra and covers the bra components of the bra body that are made of synthetic materials.

[0013] Typical bra components that comprise the bra body and that may be made of synthetic materials, and are all lined with the natural material in this invention, include the cups, the bands, the power strips or mesh, hook or fastener straps, the support bands, the underwire, the wings, if they are present, and other components not listed here that comprise a bra body and that may be synthetic in material. A basic bra drawing (FIG. 1) is included to illustrate component names used in this specification.

BRIEF DESCRIPTION OF FIGURES

[0014] The accompanying drawings and black and white photographs, which are incorporated in and form a part of the specification, illustrate the embodiments of the present invention and, together with the description, serve to explain the principles of the invention.

[0015] FIG. 1 is a front perspective drawing showing a typical bra design and the names of bra components used in the specification.

[0016] FIG. 2 is a photograph showing a bra support component with a lining stitched over it, of this invention.

[0017] FIG. 3 is a photograph showing a bra band component with a lining created by folding over the main bra fabric, of this invention, in comparison with a conventional non-lined band.

[0018] FIG. 4 is a photograph showing a bra support component with a lining created by folding a main bra fabric, of this invention, in comparison with a conventional unlined "brushed" support component.

[0019] FIG. 5 is a photograph showing a center power mesh with a natural lining over it, of this invention.

[0020] FIG. 6 is a photograph of a conventional non-lined center power mesh.

[0021] FIG. 7 is a photograph showing a hook strap with a lining over it, of this invention, in comparison with a non-lined, brushed hook strap.

DETAILED DESCRIPTION OF INVENTION

[0022] The terms "inner" or "inside" in this specification is used to mean the layer or side of the bra that touches the wearer's skin.

[0023] The term "lining" in this specification is used to mean a layer attached to the inner side of the bra or bra component. A "brushed" bra component such as "brushed cotton underwire" or "brushed cotton strap" is not a claim in this specification. A "lining" is a distinct natural cloth layer attached as an additional layer over the bra component. The lining also covers the synthetic component of the bra body completely, not partially.

[0024] The term "natural material" in this specification means a material made from natural fibers such as cotton,
bamboo, silk or wool or any other natural material or natural material blend, preferably of a soft feel to the touch. The material may or may not be certified organic.

The term “bra body” is used to indicate all bra components other than the shoulder straps and hooks/fasteners, laces or decorative accessories placed on the outside/front of the bra. Refer to FIG. 1 for illustration of terms used in this specification.

Typical bra components that comprise the bra body and that may be made of synthetic material include the cups, the bands, the power strips or meshes, hook or fastener straps, the support stays, the wings, the underwire, if they are present and any other component that may not be listed here.

This invention is unique in the scope and detail of the bra components that are lined, the type of material that is used for lining and in the finished or permanent nature of attachment of the lining(s). There could be bra designs that have some lining but they are limited to a few components—say the cups—and/or they may not be made of natural material. This invention creates a bra with inner lining(s) in natural materials over all of the synthetic bra components that touch the skin across the entire bra body. With this unique design, women users can derive a comfortable feeling and reduce the touch of synthetic materials.

In this invention, there could be many methods to attach the lining(s); examples are stitching, attaching with glue or fasteners, hot press or any other method of attaching a natural material fabric.

In this invention, the lining(s) could be firstly attached to the bra component as shown in FIG. 2 and then the component attached to the bra body or the lining(s) could be attached to the entire bra body once it is finished. If the rest of bra material is already a natural material, the same fabric could be simply be folded over to create an inner lining of this invention as shown in FIG. 3, where it is folded over an elastic band. Or it could be folded over as shown in FIG. 4, where, in this invention, it is folded over a support stay.

FIG. 5 shows a lined central power strip of this invention. A power strip is typically a synthetic mesh used for support. In this invention, if a power strip is used in the bra, the power strip is lined on the inside with a natural material, so it does not touch the skin. This can also be done with power strips on the wings of the bra (not shown here). FIG. 6 shows a conventional non-lined power mesh for comparison.

FIG. 7 shows a lined hook strap of this invention in comparison with a conventional “brushed” hook strap, as another example of this invention.

Any bra style can be lined. The foregoing description of the invention has been presented for purposes of illustration and description and is not intended to be exhaustive or to limit the invention to the precise form disclosed, and obviously many modifications and variations are possible, depending on the style of the bra. The bra styles in this invention can include with and without underwire, with and without padded or molded cups, seamed and seamless cups, push up and non push cups, with and without straps, with and without fastening, with and without elastic bands, with and without support stays, with and without power strips and with any style of coverage and similar variations. The bra in this invention can have an intended use of regular wear or maternity wear or sportswear or any other wear. This invention seeks to line all bra body components, used in any style that may be synthetic in nature.

1. A bra, comprising of bra cups, an under bust band and components to support and fasten, substantially as described herein, with an improvement of attached lining(s) on the inner side made of a natural material fiber.

2. The attached inner lining(s) in claim 1 is made of a natural material and is attached to line all of the various synthetic components of the bra body completely.

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