Title: BREAST SAVER: AN ERGONOMIC DYNAMIC BRA WITH SMART COMBO CUPS

Abstract: An ergonomically constructed dynamic bra includes smart combo cups designed with multilayered materials, a modern neckline silhouette, supporting armhole and a cut-out tear drop area to achieve a soft and quiet bust point. Each cup is built into a support, to construct different designs, including a design with or without straps, with a plunging neckline and including sides telescope boning, support frame and back strap ending in a soft-seal and cushioned back fastener. The bra is constructed to facilitate dynamic motion of the body and interaction between the breasts, the chest muscles, the diaphragm, the lateral and back muscles, resulting in breast support, firmness, comfort, reduction in tension in the back and general good breast health.
Published: before the expiration of the time limit for amending the claims (to be republished in the event of reception of amendments (Rule 48.2(h)))

— with international search report (Art. 21(3))

(88) Date of publication of the international search report: 2 December 2010
### A. CLASSIFICATION OF SUBJECT MATTER

<table>
<thead>
<tr>
<th>IPC(8)</th>
<th>A41 C 3/10 (2010.01)</th>
</tr>
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<tbody>
<tr>
<td>USPC</td>
<td>450/57</td>
</tr>
</tbody>
</table>

According to International Patent Classification (IPC) or to both national classification and IPC.

### B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

<table>
<thead>
<tr>
<th>IPC(8)</th>
<th>A41C 3/10 (2010.01)</th>
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</table>

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

<table>
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<tr>
<th>IPC(8)</th>
<th>A41C 3/10 (2010.01)</th>
<th>A41C 3/00, A41C 3/14</th>
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<tr>
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<td>450/57</td>
<td>450/55</td>
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</table>

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)


Search Terms Used: bra, brassiere, cup, cups, foam, foamed, foams, foaming, mesh, meshed, meshes, laminate, laminates, fuse, fused, fusing, foil, foiled, foils, opening, openings

### C. DOCUMENTS CONSIDERED TO BE RELEVANT

<table>
<thead>
<tr>
<th>Category*</th>
<th>Citation of document, with indication, where appropriate, of the relevant passages</th>
<th>Relevant to claim No</th>
</tr>
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<tbody>
<tr>
<td>Y</td>
<td>US 2008/0125012 A1 (GRANSBERRY) 29 May 2008 (29 05 2008) entire document especially Fig 1, Fig 3, Fig 4, para [0024], para [0025], para [0026], para [0027], para [0029], para [0030]</td>
<td>1-5</td>
</tr>
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</table>

* Special categories of cited documents

**A** document defining the general state of the art which is not considered to be of particular relevance

**E** earlier application or patent but published on or after the international filing date

**L** document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

**O** document referring to an oral disclosure, use, exhibition or other means

**P** document published pior to the internatinal filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance, the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance, the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

### Date of the actual completion of the international search

30 September 2010 (30 09 2010)

### Date of mailing of the international search report

07 OCT 2010

### Name and mailing address of the ISA/US

Mail Stop PCT, Attn: ISA-US, Commissioner for Patents
P O Box 1450, Alexandria, Virginia 22313-1450
Facsimile No 571-273-3201

Authorized officer Lee W Young

Form PCT/ISA/210 (second sheet) (July 2009)
This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. **Claims Nos**: because they relate to subject matter not required to be searched by this Authority, namely

2. **Claims Nos**: because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be earned out, specifically

3. **Claims Nos**: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a)

This International Searching Authority found multiple inventions in this international application, as follows:

Group I - Claims 1-5, directed to a multilayer foam brassiere cup, notably with extra padding at the apex

Group II - Claims 6-11, directed to an internal support frame for an ergonomic brassiere

The inventions listed as Groups I - II do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13 2, they lack the same or corresponding special technical features over the prior art.

US 2008/0125012 A1 (Gransberry) teaches a multilayer foam brassiere cup (para [0003], [0024], [0028], Flg 2, 6) Gransberry further teaches a modesty pad at the apex (para [0008])

1. **As all required additional search fees were timely paid by the applicant**, this international search report covers all searchable claims

2. **As all searchable claims could be searched without effort justifying additional fees**, this Authority did not invite payment of additional fees

3. **As only some of the required additional search fees were timely paid by the applicant**, this international search report covers only those claims for which fees were paid, specifically claims Nos

4. **No required additional search fees were timely paid by the applicant**. Consequently, this international search report is restricted to the invention first mentioned in the claims, it is covered by claims Nos 1-5.

**Remark on Protest**

- The additional search fees were accompanied by the applicant's protest and, where applicable, the payment of a protest fee
- The additional search fees were accompanied by the applicant's protest but the applicable protest fee was not paid within the time limit specified in the invitation
- No protest accompanied the payment of additional search fees

Form PCT/ISA/210 (continuation of first sheet (2)) (July 2009)