(54) Title: EXTERNAL URINARY INCONTINENCE DEVICE AND ADHESIVE COMPOSITION FOR ATTACHING SAME

(57) Abstract: A disposable unisex external urinary incontinence device (100) with the ability to be worn for an extended period of time is provided. The unisex external urinary incontinence device (100) is composed of a collection receptacle (110), a drainage tube (120), and an extended-wear hydrocolloid adhesive (130). The extended-wear hydrocolloid adhesive (130) is comprised of a hydrocolloid, an acrylic polymer, a tackifier resin, and optionally, either one or more of an extender, such as mineral oil, a copolymer such as ethylene vinyl acetate, or a styrene-isoprene-styrene block copolymer. The adhesive may also contain an antimicrobial additive or other components deemed necessary to manage a patient's well-being or other specific condition, such as an antimicrobial agent or odor eliminator.
Previous Correction:
see Notice of 12 September 2008
### 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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<tr>
<td>X</td>
<td>GB 2 015 347 A (KINGSDOWN MEDICAL CONSULTANTS) 12 September 1979 (1979-09-12) page 1, left-hand column, line 33 - page 3, left-hand column, line 3; figures 3,4</td>
<td>1-4,8</td>
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<td>Y</td>
<td>US 4 198 979 A (COONEY DONALD G [US] ET AL) 22 April 1980 (1980-04-22) column 5, lines 6-41; figures 1,2</td>
<td>5</td>
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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 document 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 prior to the international 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 as involving 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: 28 April 2008

Date of mailing of the international search report: 19/03/2009

Authorized officer: Øen, Petter
INTERNATIONAL SEARCH REPORT

Box No. II  Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

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 carried 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).

Box No. III  Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

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

see additional sheet

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 an additional fee, 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.:

   see annex

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)) (April 2005)
This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-5, 8

A disposable external urinary incontinence device comprising a collection receptacle, a drainage tube, and an extended-wear hydrocolloid adhesive, the collection receptacle including outer and inner surfaces and an outer border around the inner surface to which the extended-wear hydrocolloid adhesive is applied, solving the problem of reducing the amount of adhesive needed to attach the device also making it more comfortable to wear.

2. claims: 6, 7

A disposable external urinary incontinence device wherein the collection receptacle is a vacuum formable/flexible conformable film, solving the problem of achieving a more comfortable and less expensive device.

3. claims: 9-20

An extended-wear hydrocolloid adhesive comprising of 20-60% (by weight) hydrocolloid, 10-50% (by weight) tackifier resin, 18-40% (by weight) acrylic polymer, and optionally, 0.5 – 15% (by weight) of one or more of an extender, solving the problem of achieving a more secure adhesion to skin in the presence of liquids.
<table>
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<tr>
<th>Patent document cited in search report</th>
<th>Publication date</th>
<th>Patent family member(s)</th>
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<tr>
<td>GB 2015347</td>
<td>12-09-1979</td>
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<td>US 4198979</td>
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