



New connection on: : 21-06-2018 : 02:22:09 - Last disconnection on: : 20-06-2018 : 18:53:30

V 4.0.0.44358(LP,U,linux) (Rev:43856 2017-04-27 09:03:29 +0200#(D201802)) (RPM D201802)

Welcome to EPOQUE Rebuild under the Production Environment

[EPODOC: SS 9] absorbent and odor and control and (permeable or pervious)

Results in EPODOC 43

[SS 10] 9 and (impermeable or impervious)

Results in EPODOC 28

[SS 11] 10 and pd<20130505

Results in EPODOC 14

[SS 12] ..li



1/14 © EPODOC / EPO

PN - [US2009044325](#) A1 20090219

PR - US20070893089 20070814

AP - US20070893089 20070814

DT - *; Rep

CT - || R141 (A1)

[US6887564](#) B2 [];

[US2007163038](#) A1 [];

[US2001034904](#) A1 [];

[US2007271691](#) A1 []

CCI - [A47K11/06](#)

TI - Receptacle with **absorbent** pack
for portable toilets

AB - The receptacle with **absorbent**
pack comprises a receptacle
adapted for positioning beneath
the seat of a portable toilet to
receive solid and aqueous liquid
waste, especially urine. The
receptacle is made of a flexible,
liquid **impermeable**,



biodegradable material. The receptacle has a volume sufficient for multiple use of the portable toilet. A means for sealing the receptacle liquid tight is provided, such as a zip-lock seal. Used in combination with the receptacle is an **absorbent** pack having a liquid absorbing material sealed within a liquid **permeable**, biodegradable, heat sealed envelope. The liquid absorbing material is an **absorbent** gelling water-insoluble, water-swellable polymeric material with an optional wicking material. The **absorbent** pack can include an **odor control** material and/or an antimicrobial agent as options. One **absorbent** pack will be added to the receptacle for each use of the portable toilet, until the receptacle is full

2/14 © EPODOC / EPO

PN - [MX2008001272](#) A 20080325

PR - US20050194102
20050729; WO2006US15288
20060424

AP - MX20080001272 20060424

DT - I

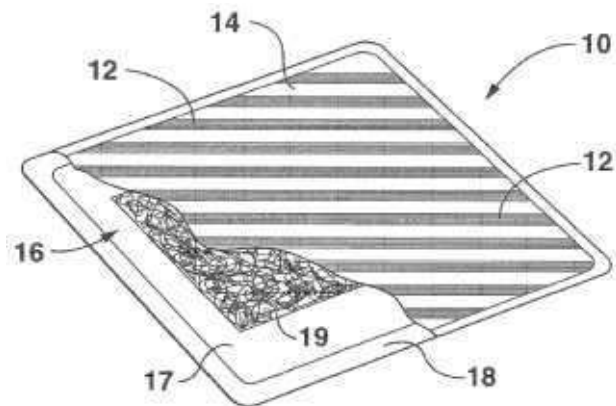
CCI - [A61L15/18](#) ; [A61L15/42](#)

CCA - [Y10T428/24802](#) ;
[Y10T428/24901](#)

PA - KIMBERLY CLARK CO [US]

TI - **ABSORBENT** PAD WITH
ACTIVATED CARBON INK
FOR **ODOR CONTROL**.

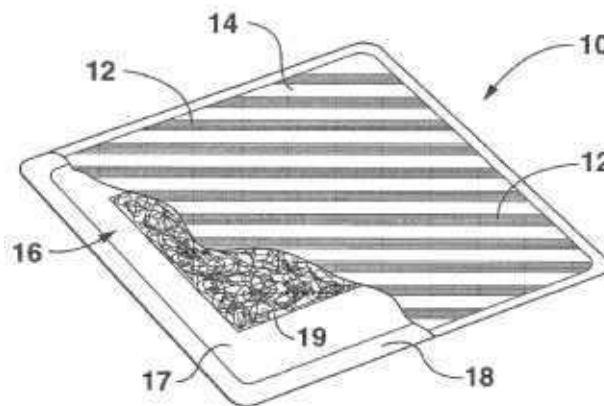
AB - An **absorbent** pad configured for placement under a patient to absorb bodily fluids includes a liquid **permeable** cover layer, a liquid **impermeable** back sheet, and an **absorbent** structure disposed between the cover layer and the back sheet. At least one



of the cover layer, back sheet, or **absorbent** structure incorporates a dried application of a liquid activated carbon ink having activated carbon, a binder, and a solvent, with the dried application of ink having a solids add-on level of at least about 2%. The activated carbon ink is applied in a pattern over between about 25% to about 95% of a total upper surface area of the pad and presents a visually contrasting color against a background color of the pad or a contrasting ink.

3/14 © EPODOC / EPO

- PN - [WO2007018639](#) A2 20070215
- PNFP - WO2007018639 A3 20070719
- PR - US20050194102 20050729
- AP - WO2006US15288 20060424
- DT - **
- CT - |EP| ISR (A3)
[US2004166248](#) A1 20040826
 [DX] (HU SHENG-HSIN [US], et al)
 [DX] 1-16
 * page 1, paragraph 3 - paragraph 7 *
 * page 2, paragraph 10 - paragraph 12 *
 * page 4, paragraph 33 - paragraph 34 *
 * page 4, paragraph 39 - page 6, paragraph 53 *
 * examples 1-10 *
 * claims 1-20 *;
[WO2004060421](#) A1 20040722
 [X] (KIMBERLY CLARK CO [US])
 [X] 1-16
 * page 2, line 11 - page 4, line 11 *
 * page 6, line 3 - line 25 *
 * page 8, line 14 - line 23 *
 * page 9, line 32 - page 10, line 25 *
 * page 11, line 11 - line 29 *
 * page 12, line 14 - line 33 *



* page 13, line 30 - page 14,
line 19 *

* claims 1-27 *;

[DE19816393](#) A1 19991014
[XY] (UFLUMWELTANALYTIK UND
FORSCHU [DE])
[X] 1-4,6,10-16
* column 1, line 5 - line 17 *
* column 1, line 42 - line 67 *
* claims 1-3 *

[Y] 1-16;

[US2003022787](#) A1 20030130
[DY] (MCCRAE PETER D A [US], et
al)
[DY] 1-16
* page 1, paragraph 2 *
* page 2, paragraph 16 -
paragraph 32 *
* examples 1-4 *
* claims 1-17 *;

[BE815446](#) A 19740916
[X] (PANREX CO., LTD)
[X] 1-4,6,10-16
* page 3, paragraph 2 -
paragraph 3 *
* page 4, paragraph 1 - page 5,
paragraph 2 *
* page 6, paragraph 2 - page 7,
paragraph 2 *
* page 8, paragraph 3 *
* examples 1-5 *
* claims 1-8 *;

[DE19603840](#) A1 19970807
[X] (SANDLER HELMUTH HELSA
WERKE [DE])
[X] 1-4,6,10-16
* column 1, line 3 - line 31 *
* column 1, line 54 - column 2,
line 36 *
* column 2, line 53 - column 3,
line 20 *
* claims 1-8 *;

[US5693385](#) A 19971202
[DA] (PARKS CHRISTOPHER J [US])
[DA] 1-16
* the whole document *;

[WO2006071313](#) A1 20060706
[E] (KIMBERLY CLARK CO [US], et
al)

[E] 1-16
 * page 1, line 17 - page 2,
 line 7 *
 * page 6, line 5 - line 15 *
 * page 7, line 3 - line 25 *
 * page 17, line 10 - page 18,
 line 29 *
 * page 24, line 10 - page 26,
 line 2 *
 * examples 1,2 *
 * claims 1-20 *;
[WO2006071318](#) A1 20060706
 [E] (KIMBERLY CLARK CO [US], et
 al)

[E] 1-16
 * page 1, line 20 - page 2,
 line 20 *
 * page 5, line 9 - page 7,
 line 30 *
 * page 8, line 15 - line 31 *
 * page 13, line 15 - page 14,
 line 31 *
 * examples 1-10 *
 * claims 1-22 *

CCI - [A61L15/18](#) ; [A61L15/42](#)

CCA - [Y10T428/24802](#) ;
[Y10T428/24901](#)

PA - (A2 A3)
 KIMBERLY CLARK CO [US];
 MACDONALD JOHN GAVIN [US];
 FISH JEFFREY E [US]; GREENE
 SHARON LINDA [US]; KIM JAEHO
 [US]

TI - (A2 A3)
ABSORBENT PAD WITH
 ACTIVATED CARBON INK
 FOR **ODOR CONTROL**

AB - (A2 A3)
 An **absorbent** pad configured for
 placement under a patient to
 absorb bodily fluids includes a
 liquid **permeable** cover layer, a
 liquid **impermeable** back sheet,
 and an **absorbent** structure
 disposed between the cover layer
 and the back sheet. At least one
 of the cover layer, back sheet,
 or **absorbent** structure

incorporates a dried application of a liquid activated carbon ink having activated carbon, a binder, and a solvent, with the dried application of ink having a solids add-on level of at least about 2%. The activated carbon ink is applied in a pattern over between about 25% to about 95% of a total upper surface area of the pad and presents a visually contrasting color against a background color of the pad or a contrasting ink.

4/14 © EPODOC / EPO

PN - [US2008058739](#) A1 20080306

PR - US20060513598 20060831

AP - US20060513598 20060831

DT - **

CT - || R141 (A1)

[US5383872](#) A [];

[US5593399](#) A [];

[US2006008442](#) A1 [];

[US7166305](#) B2 [];

[US5284703](#) A [];

[US6852904](#) B2 [];

[USH1639H](#) H [];

[US5733272](#) A [];

[US6867343](#) B2 [];

[US5306487](#) A [];

[US5407442](#) A [];

[US6369290](#) B1 [];

[US2004067214](#) A1 [];

[US2004078048](#) A1 [];

[US2005075278](#) A1 [];

[US2005084438](#) A1 [];

[US2005084464](#) A1 [];

[US2005084474](#) A1 [];

[US5019062](#) A [];

[US2004102752](#) A1 [];

[US6730819](#) B1 [];

[US2005112085](#) A1 [];

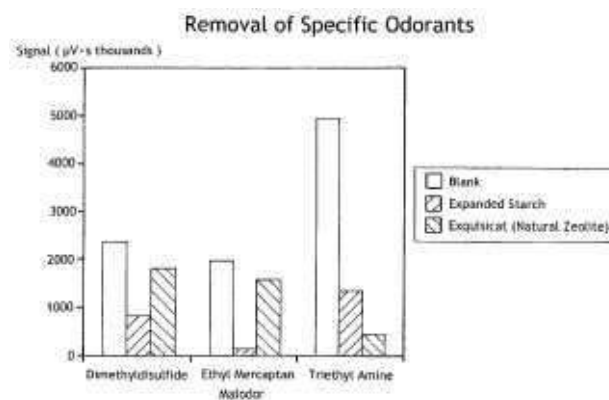
[US6887564](#) B2 [];

[US6890963](#) B2 [];

[US4842593](#) A [];

[USH1732H](#) H [];

[US2004120921](#) A1 [];



[US2004122387](#) A1 [];
[US6750261](#) B1 [];
[US2005115462](#) A1 [];
[US2006121099](#) A1 [];
[US4100324](#) A [];
[US5436066](#) A [];
[US5541233](#) A [];
[US6417425](#) B1 [];
[US6589892](#) B1 [];
[US6765042](#) B1 [];
[US2006148655](#) A1 [];
[US4762521](#) A [];
[USH1579H](#) H [];
[US6437212](#) B1 [];
[US2005175649](#) A1 [];
[US5350624](#) A [];
[US5801116](#) A [];
[US2001023338](#) A1 [];
[US6455114](#) B1 [];
[US2003172458](#) A1 [];
[US4619862](#) A [];
[US6468355](#) B1 [];
[US2003203009](#) A1 [];
[US2005227058](#) A1 [];
[US6147028](#) A [];
[US6645569](#) B2 [];
[US6649805](#) B1 [];
[US2005256477](#) A1 [];
[US6960655](#) B2 [];
[US6967025](#) B2 [];
[US7132479](#) B2 [];
[US2003224034](#) A1 [];
[US6664389](#) B1 [];
[US6666850](#) B1 [];
[US6833487](#) B2 []

- CCI - [A61F13/8405](#) ; [A61L15/28](#) ;
[A61L15/46](#)
- CLC - [A61L15/28](#) , [C08L3/02](#) , INV
- CCA - [A61F2013/8435](#) ; [A61L2300/404](#)
- PA - KIMBERLY CLARK CO
- TI - Expanded starch for **odor control**
- AB - An **absorbent** article includes a liquid **pervious** topsheet, a liquid **impervious** backsheet, and an **absorbent** core located between the topsheet and the backsheet. The **absorbent** article includes expanded starch

particles to **control** odors. The expanded starch particles may be corn starch with an amylase content of at least 20% and a surface area of at least 100 m²/g.

5/14 © EPODOC / EPO

PN - [US2003225387](#) A1 20031204

PR - US20030448558
20030530; US20020385029P
20020531

AP - US20030448558 20030530

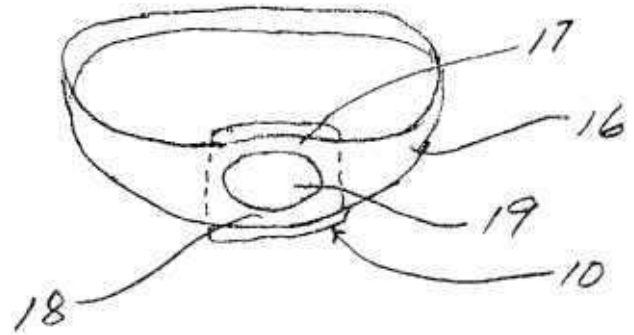
DT - *; Rep

CT - || R141 (A1)
[US4723952](#) A [];
[US4901714](#) A [];
[US3125093](#) A [];
[US3804091](#) A [];
[US5203806](#) A [];
[US2679248](#) A [];
[US2896625](#) A [];
[US4848329](#) A [];
[US5533963](#) A [];
[US4865594](#) A [];
[US5250043](#) A [];
[US2814295](#) A []

CCI - [A61F13/0206](#) ; [A61F5/441](#) ;
[A61F5/445](#) ; [A61F13/0226](#)

TI - **Absorbent** ostomy pad system

AB - An **absorbent** ostomy pad system for absorbing and containing waste emitted from a stoma in the body of an ostomy patient includes a highly **absorbent** thin body, preferably formed of one or more layers of cellulose fluff with a liquid **absorbent** polymer dispersed through the fluff, a **permeable** sheet disposed on one face of the **absorbent** body, an **impermeable** sheet disposed on the opposite face of the **absorbent** body and connected to the first sheet, to enclose the **absorbent** body between the first and second



sheets, and attachment means for removably holding the pad over the stoma. The attachment means may be an adhesive, or may be an elastic band to encircle the patient's body over the pad. **Odor control** agents such as baking soda may be included in the **absorbent** body of the pad.

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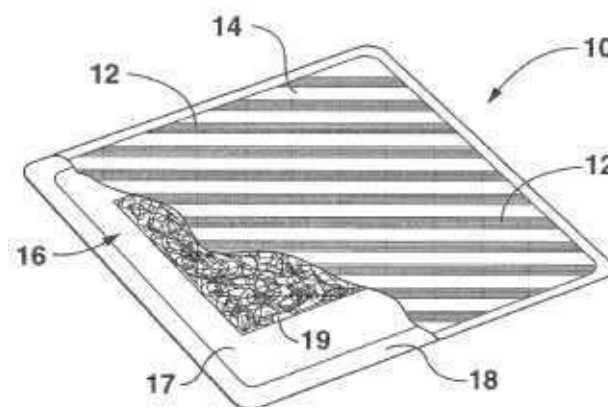
- PN - [USH1732H](#) H 19980602
- PR - US19940212441 19940310
- AP - US19940212441 19940310
- DT - **
- CT - || STSE (H)
[US2690415](#) A 19540928 [] (SHULER FREDERICK A);
[US3093546](#) A 19630611 [] (ATKINSON RALPH L);
[US3308488](#) A 19670314 [] (SCHOONMAN RICHARD J);
[US3732867](#) A 19730515 [] (MONEY M);
[US3804094](#) A 19740416 [] (GASCON M, et al);
[US3964486](#) A 19760622 [] (BLANEY TED LEE);
[US4342314](#) A 19820803 [] (RADEL CLIFFORD J, et al);
[US4385632](#) A 19830531 [] (ODELHOEG SVEN O [SE]);
[US4525410](#) A 19850625 [] (HAGIWARA ZENJI [JP], et al);
[US4661101](#) A 19870428 [] (SUSTMANN SCARLET [DE]);
[US4795482](#) A 19890103 [] (GIOFFRE ANTHONY J [US], et al);
[US4826497](#) A 19890502 [] (MARCUS BONITA K [US], et al);
[US4911899](#) A 19900327 [] (HAGIWARA ZENJI [JP], et al);
[US5019062](#) A 19910528 [] (RYAN LESLIE D [US], et al);
[US5037412](#) A 19910806 [] (TANZER RICHARD W [US], et al);
[US5122407](#) A 19920616 [] (YEO RICHARD S [US], et al);
[US5306487](#) A 19940426 [] (KARAPASHA NANCY [US], et al);
[US5342333](#) A 19940830 [] (TANZER RICHARD W [US], et al);
[BE815446](#) A 19740916 [];
[EP0347746](#) A1 19891227 [] (PROCTER & GAMBLE [US]);
[EP0389023](#) A2 19900926 [] (PROCTER & GAMBLE [US]);
[EP0389015](#) A2 19900926 [] (PROCTER & GAMBLE [US]);
[JPS5538855](#) A 19800318 [] (NITTO ELECTRIC IND CO);
[JPS5538358](#) A 19800317 [] (NITTO ELECTRIC IND CO);
[JPS6415049](#) A 19890119 [] (TOKYO KASEIHIN CO LTD);
[WO9316670](#) A1 19930902 [] (MCNEIL PPC INC [US])
- CTNP - || STSE (H)
[] - U.S. application No. 07/478,801, Karapasha et al., filed Feb. 12, 1990.
- CCI - [A61F13/51113](#) ; [A61F13/512](#) ; [A61F13/8405](#)
- CCA - [A61F13/5148](#) ; [A61F13/537](#) ; [A61F2013/47281](#) ; [A61F2013/51033](#) ; [A61F2013/51066](#) ;

[A61F2013/51078](#) ; [A61F2013/5109](#) ; [A61F2013/51147](#) ; [A61F2013/51449](#) ;
[A61F2013/51452](#) ; [A61F2013/530029](#) ; [A61F2013/530051](#) ; [A61F2013/530087](#) ;
[A61F2013/530167](#) ; [A61F2013/530189](#) ; [A61F2013/530197](#) ; [A61F2013/530335](#) ;
[A61F2013/53035](#) ; [A61F2013/530481](#) ; [A61F2013/530802](#) ; [A61F2013/53916](#) ;
[A61F2013/53925](#) ; [A61F2013/583](#) ; [A61F2013/586](#) ; [A61F2013/8414](#) ; [A61F2013/842](#) ;
[A61F2013/8423](#)

- TI - **Absorbent** articles containing antibacterial agents in the topsheet for **odor control**
- AB - The present invention provides an article of manufacture which minimizes **odor** caused by bodily fluids, i.e. perspiration, comprising: a liquid **pervious** topsheet; a liquid **impervious** backsheet; an **absorbent** core positioned between the topsheet and the backsheet; and optionally, a means for supporting the article in an appropriate position to perform its absorbency and **odor control** function; wherein the topsheet comprises an apertured plastic film containing an effective amount of zeolite impregnated with a heavy metal ion; The articles of the present invention provide an increase in the topsheet surface area available for contact with external body fluids such as perspiration, places the antibacterial active in the closest proximity to the skin of the wearer, the active reducing the perspiration malodor by minimizing its formation.

7/14 © EPODOC / EPO

- PN - [US2007026209](#) A1 20070201
- PNFP - US7655829 B2 20100202
- PR - US20050194102 20050729
- AP - US20050194102 20050729
- DT - *; Rep
- CT - || STSE (B2)
[US5503076](#) A 19960402 [] (YEO RICHARD S [US])
[USH1579H](#) H 19960806 [] (FURIO DIANE L [US])
[US6972010](#) B2 20051206 [] (PESCE ANTONELLA [IT], et al)
[US7163529](#) B2 20070116 [] (MOCADLO CHERYL ANN [US])
[US2004044319](#) A1 20040304 [] (BEWICK-SONNTAG CHRISTOPHER PHI [US], et al)
[US2004116882](#) A1 20040617 [] (ERSPAMER JOHN [US], et al)
[US2004122386](#) A1 20040624 [] (MOCADLO CHERYL A [US])
[US2006111684](#) A1 20060525 [] (BERBA MARIA L M [PH], et al)
- || R141 (A1)
[US7163529](#) B2 [];
[US2004044319](#) A1 [];
[US5503076](#) A [];
[US2006111684](#) A1 [];



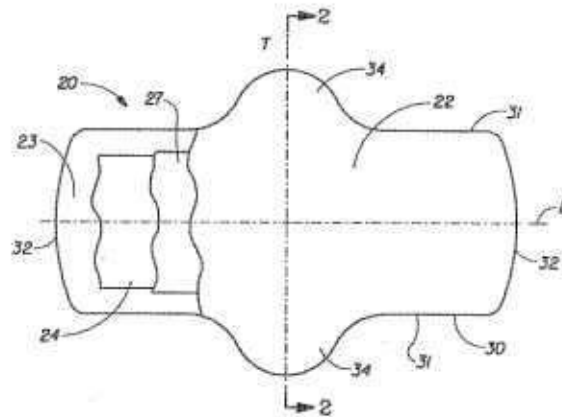
	US2004116882 A1 []; US2004122386 A1 []; USH1579H H []; US6972010 B2 []
CCI	- A61L15/18 ; A61L15/42
CCA	- Y10T428/24802 ; Y10T428/24901
PA	- (A1) KIMBERLY CLARK CO - (B2) KIMBERLY CLARK CO [US]
TI	- (A1 B2) Absorbent pad with activated carbon ink for odor control
AB	- (A1 B2) An absorbent pad configured for placement under a patient to absorb bodily fluids includes a liquid permeable cover layer, a liquid impermeable back sheet, and an absorbent structure disposed between the cover layer and the back sheet. At least one of the cover layer, back sheet, or absorbent structure incorporates a dried application of a liquid activated carbon ink having activated carbon, a binder, and a solvent, with the dried application of ink having a solids add-on level of at least about 2%. The activated carbon ink is applied in a pattern over between about 25% to about 95% of a total upper surface area of the pad and presents a visually contrasting color against a background color of the pad or a contrasting ink.

PN - [WO9524173](#) A2 19950914
 PNFP - WO9524173 A3 19951005
 PR - US19940212441 19940310
 AP - WO1995US02381 19950227
 DT - *; Rep
 CT - |EP| ISR (A3)
 [US5122407](#) A 19920616 [Y] (YEO
 RICHARD S [US], et al)
 [Y] 1-10
 * column 11, line 31 - line 34;
 figure - *;
 [US4525410](#) A 19850625
 [Y] (HAGIWARA ZENJI [JP], et al)
 [Y] 1-5
 * abstract *;
 [WO9111977](#) A1 19910822
 [Y] (PROCTER & GAMBLE [US])
 [Y] 6-10
 * example - *

 CCI - [A61F13/51113](#) ; [A61F13/512](#) ;
 [A61F13/8405](#)

 CCA - [A61F13/5148](#) ; [A61F13/537](#) ;
 [A61F2013/47281](#) ;
 [A61F2013/51033](#) ;
 [A61F2013/51066](#) ;
 [A61F2013/51078](#) ;
 [A61F2013/5109](#) ;
 [A61F2013/51147](#) ;
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 [A61F2013/530802](#) ;
 [A61F2013/53916](#) ;
 [A61F2013/53925](#) ;
 [A61F2013/583](#) ; [A61F2013/586](#) ;
 [A61F2013/8414](#) ;
 [A61F2013/842](#) ; [A61F2013/8423](#) ;

 PA - (A2 A3)
 PROCTER & GAMBLE [US]



- TI - (A2)
 ABSORBENT ARTICLES
 CONTAINING ANTIBACTERIAL
 AGENTS IN THE TOPSHEET
 FOR **ODOR CONTROL**
- (A3)
 Absorbent articles containing
 antibacterial agents in the
 topsheet for **odor control**
- AB - (A2)
 The present invention provides
 an article of manufacture which
 minimizes **odor** caused by bodily
 fluids, i.e. perspiration,
 comprising: a liquid **pervious**
 topsheet; a liquid **impervious**
 backsheet; an **absorbent** core
 positioned between the topsheet
 and the backsheet; and
 optionally, a means for
 supporting the article in an
 appropriate position to perform
 its absorbency and **odor control**
 function; wherein the topsheet
 comprises an apertured plastic
 film containing an effective
 amount of zeolite impregnated
 with a heavy metal ion. The
 articles of the present invention
 provide an increase in the
 topsheet surface area available
 for contact with external body
 fluids such as perspiration,
 place the antibacterial active in
 the closest proximity to the skin
 of the wearer, the active reducing
 the perspiration malodor by
 minimizing its formation.

PN - [MX9604009](#) A 19980531

PR - US19940212441
19940310; WO1995US02381
19950227

AP - MX19960004009 19950227

DT - I

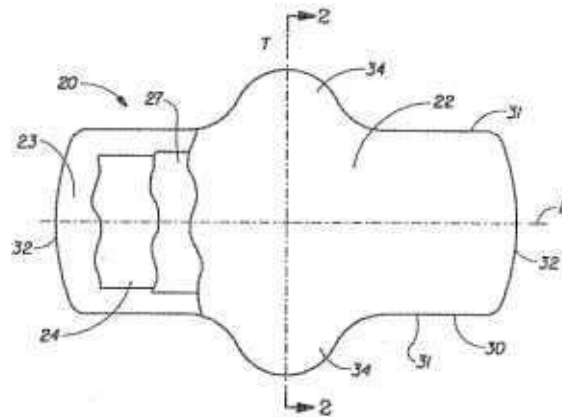
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[A61F13/8405](#)

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[A61F2013/47281](#) ;
[A61F2013/51033](#) ;
[A61F2013/51066](#) ;
[A61F2013/51078](#) ;
[A61F2013/5109](#) ;
[A61F2013/51147](#) ;
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[A61F2013/530051](#) ;
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[A61F2013/530167](#) ;
[A61F2013/530189](#) ;
[A61F2013/530197](#) ;
[A61F2013/530335](#) ;
[A61F2013/53035](#) ;
[A61F2013/530481](#) ;
[A61F2013/530802](#) ;
[A61F2013/53916](#) ;
[A61F2013/53925](#) ;
[A61F2013/583](#) ; [A61F2013/586](#) ;
[A61F2013/8414](#) ;
[A61F2013/842](#) ; [A61F2013/8423](#)

PA - PROCTER & GAMBLE [US]

TI - **ABSORBENT** ARTICLES
CONTAINING ANTIBACTERIAL
AGENTS IN THE TOPSHEET
FOR **ODOR CONTROL**.

AB - The present invention provides
an article of manufacture which
minimizes **odor** caused by bodily
fluids, i.e. perspiration,
comprising: a liquid **pervious**
topsheet; a liquid **impervious**
backsheet; an **absorbent** core
positioned between the topsheet
and the backsheet; and
optionally, a means for



supporting the article in an appropriate position to perform its absorbency and **odor control** function; wherein the topsheet comprises an apertured plastic film containing an effective amount of zeolite impregnated with a heavy metal ion. The articles of the present invention provide an increase in the topsheet surface area available for contact with external body fluids such as perspiration, place the antibacterial active in the closest proximity to the skin of the wearer, the active reducing the perspiration malodor by minimizing its formation.

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PN - [KR20080031341](#) A 20080408

PNFP - KR101318025B B1 20131015

PR - US20050194102
20050729; WO2006US15288
20060424

AP - KR20087002263 20060424

DT - I

CT - || STSE (B1)
[US2004122386](#) A1 20040624 [] (MOCADLO CHERYL A [US]);
[KR20030090750](#) A 20031128 [];
[KR200380197Y](#) Y1 20050329 []

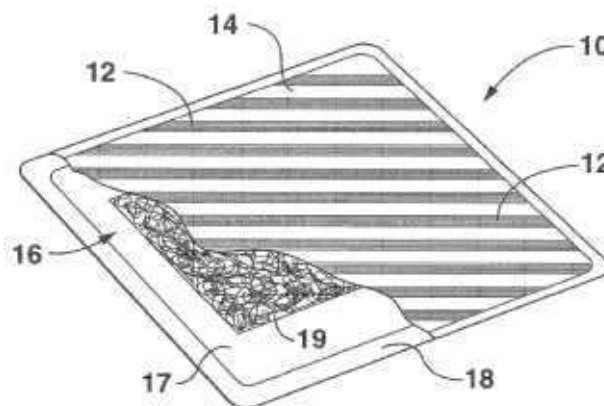
CCI - [A61L15/18](#) ; [A61L15/42](#)

CCA - [Y10T428/24802](#) ;
[Y10T428/24901](#)

PA - (A)
KIMBERLY CLARK CO [US]

TI - (A B1)
**ABSORBENT PAD WITH
ACTIVATED CARBON INK
FOR ODOR CONTROL**

AB - (A)
An **absorbent** pad configured for placement under a patient to absorb bodily fluids includes a liquid **permeable** cover layer, a



liquid **impermeable** back sheet,
 and an **absorbent** structure
 disposed between the cover layer
 and the back sheet. At least one
 of the cover layer, back sheet,
 or **absorbent** structure
 incorporates a dried application
 of a liquid activated carbon ink
 having activated carbon, a
 binder, and a solvent, with the
 dried application of ink having a
 solids add-on level of at least
 about 2%. The activated carbon
 ink is applied in a pattern over
 between about 25% to about 95%
 of a total upper surface area of
 the pad and presents a visually
 contrasting color against a
 background color of the pad or a
 contrasting ink.

11/14 © EPODOC / EPO

PN - [WO2008026114](#) A2 20080306

PNFP - WO2008026114 A3 20090604

PR - US20060513598 20060831

AP - WO20071B53069 20070803

DT - *; Rep

CT - |EP| ISR (A3)

[US6147028](#) A 20001114 [XY] (RIZZI GEORGE PETER [US])

[X] 1-5,8-11,13

* column 2, line 14 - column 3, line 36 *

* column 4, lines 5-8 *

* column 5, lines 8-44 *

* examples 2,3 *

* claims 1-9 *

[Y] 6,7,12;

[EP0348978](#) A2 19900103 [Y] (KIMBERLY CLARK CO [US])

[Y] 6,7,12

* page 2, lines 28-51 *

* page 3, lines 25-50 *

* page 4, lines 49-51 *

* page 5, lines 1-12 *

* page 6, line 24 - page 8, line 1 *

* claims 1-29 *;

[WO2007067112](#) A1 20070614 [PX] (SCA HYGIENE PROD AB [SE], et al)

[PX] 1-5,9

* claims 1-19 *

* page 16, lines 1-8 *

* page 13, line 31 - page 14, line 21 *

* page 11, line 10 - page 12, line 6 *;

[WO2007067111](#) A1 20070614 [PX] (SCA HYGIENE PRODUCTS AB [SE], et al)

[PX] 1-5,9,13

* page 9, line 1 - page 12, line 20 *

* page 14, line 26 - page 15, line 23 *

* page 19, lines 6-9 *

* page 20, lines 8-15 *

* claims 1-10 *

CCI - [A61F13/8405](#) ; [A61L15/28](#) ; [A61L15/46](#)

CLC - [A61L15/28](#) , [C08L3/02](#) , INV

CCA - [A61F2013/8435](#) ; [A61L2300/404](#)

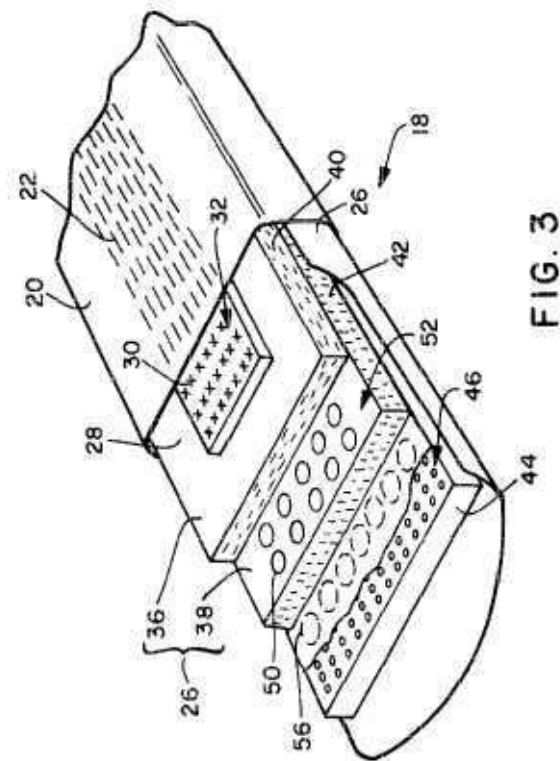
PA - (A2 A3)
KIMBERLY CLARK CO [US]; ROBERTS FRANK GROSCH [US]; CUNNINGHAM COREY THOMAS [US]

TI - (A2 A3)
EXPANDED STARCH FOR **ODOR CONTROL**

AB - (A2)
An **absorbent** article includes a liquid **pervious** topsheet, a liquid **impervious** backsheet, and an **absorbent** core located between the topsheet and the backsheet. The **absorbent** article includes expanded starch particles to **control** odors. The expanded starch particles may be corn starch with an amylase content of at least 20% and a surface area of at least 100 m²/g.

- (A3)
An **absorbent** article includes a liquid **pervious** topsheet, a liquid **impervious** backsheet, and an **absorbent** core located between the topsheet and the backsheet. The **absorbent** article includes expanded starch particles to **control** odors. The expanded starch particles may be corn starch with an amylase content of at least 20% and a surface area of at least 100 m²/g.

PN - [EP0510619](#) A1 19921028
 PR - US19910689389 19910422
 AP - EP19920106892 19920422
 DT - *; Rep
 CT - || STSE (A1)
 [EP0389023](#) A2 19900926
 [X] (PROCTER & GAMBLE [US]);
 [EP0376761](#) A1 19900704
 [A] (DIFINTER SA [FR]);
 [US4877816](#) A 19891031
 [A] (MURABAYASHI KATSUYOSHI
 [JP], et al);
 [JPS63135501](#) A 00000000 [A]
 CTNP - || STSE (A1)
 [A] - WORLD PATENTS INDEX
 LATEST Section PQ, Week 8828,
 Derwent Publications Ltd.,
 London, GB; Class P32, AN 88-
 195904 & JP-A-63 135 501
 (PIGEON AND ARAKAWA) 7 June
 1988
 CCI - [A61F13/511](#) ; [A61F13/8405](#) ;
 [A61L15/46](#)
 CCA - [A61F2013/51409](#) ;
 [A61F2013/51411](#) ;
 [A61F2013/51429](#) ;
 [A61F2013/530007](#) ;
 [A61F2013/530131](#) ;
 [A61F2013/530335](#) ;
 [A61F2013/530481](#) ;
 [A61F2013/8408](#) ;
 [A61F2013/8411](#) ;
 [A61F2013/8414](#) ;
 [A61F2013/842](#) ;
 [A61F2013/8423](#) ;
 [A61F2013/8426](#) ;
 [A61F2013/8429](#) ;
 [A61L2300/206](#) ; [A61L2300/404](#)
 PA - KIMBERLY CLARK CO [US]
 TI - Article for absorbing bodily
 fluids and controlling malodor
 created by same.
 AB - An article (18) for absorbing
 bodily fluids and controlling
 malodor created by the presence
 of the bodily fluid. The article
 (18) includes a liquid **permeable**



topsheet (20) and a liquid **impermeable** backsheet (24) forming an envelope or cavity with the topsheet. A liquid **absorbent** material (26) is disposed between the topsheet (20) and the backsheet (24). At least one bacterial growth inhibitor (30) is generally disposed between the topsheet (20) and the liquid **absorbent** material (26). An **odor control** complex is disposed between the topsheet (20) and the backsheet (24) and can include a sheet form **odor control** member (44). The **odor control** agents forming the **odor control** complex can be protected against moisture by various artifices, including hydrophobically coating the **odor control** agent, shielding the **odor control** agent with a liquid **impermeable** sheet (52), and disposing the **odor control** agent where it is less likely to be contacted by moisture. The selection of combination of **odor control** agents and their relative disposition within the article are designed to enhance their effectiveness in removing malodor from the article.

<IMAGE>

13/14 © EPODOC / EPO

PN - [CA2185107](#) C 20001205

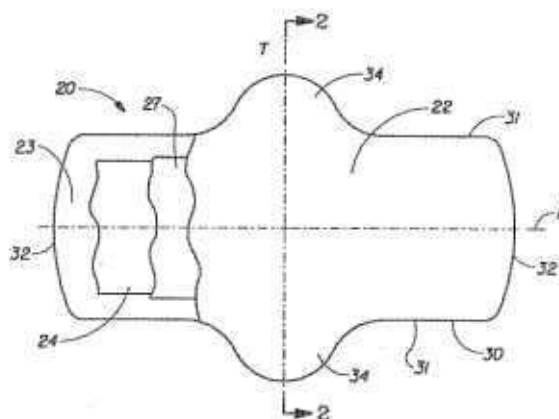
PR - US19940212441
19940310; WO1995US02381
19950227

AP - CA19952185107 19950227

DT - I

CCI - [A61F13/51113](#) ; [A61F13/512](#) ;
[A61F13/8405](#)

CCA - [A61F13/5148](#) ; [A61F13/537](#) ;
[A61F2013/47281](#) ;
[A61F2013/51033](#) ;
[A61F2013/51066](#) ;



[A61F2013/51078](#) ;
[A61F2013/5109](#) ;
[A61F2013/51147](#) ;
[A61F2013/51449](#) ;
[A61F2013/51452](#) ;
[A61F2013/530029](#) ;
[A61F2013/530051](#) ;
[A61F2013/530087](#) ;
[A61F2013/530167](#) ;
[A61F2013/530189](#) ;
[A61F2013/530197](#) ;
[A61F2013/530335](#) ;
[A61F2013/53035](#) ;
[A61F2013/530481](#) ;
[A61F2013/530802](#) ;
[A61F2013/53916](#) ;
[A61F2013/53925](#) ;
[A61F2013/583](#) ; [A61F2013/586](#) ;
[A61F2013/8414](#) ;
[A61F2013/842](#) ; [A61F2013/8423](#)

- | | |
|----|---|
| TI | - ABSORBENT ARTICLES
CONTAINING ANTIBACTERIAL
AGENTS IN THE TOPSHEET
FOR ODOR CONTROL |
| AB | - The present invention provides
an article of manufacture which
minimizes odor caused by bodily
fluids, i.e. perspiration,
comprising: a liquid pervious
topsheet, a liquid impervious
backsheet, an absorbent core
positioned between the topsheet
and the backsheet; and
optionally, a means for
supporting the article in an
appropriate position to perform
its absorbency and odor control
function; wherein the topsheet
comprises an apertured plastic
film containing an effective
amount of zeolite impregnated
with a heavy metal ion. The
articles of the present invention
provide an increase in the
topsheet surface area available
for contact with external body
fluids such as perspiration,
place the antibacterial active in
the closest proximity to the skin |

of the wearer, the active reducing the perspiration malodor by minimizing its formation.

14/14 © EPODOC / EPO

PN - [CA2054095](#) A1 19921023

PR - US19910689389 19910422

AP - CA19912054095 19911023

DT - I

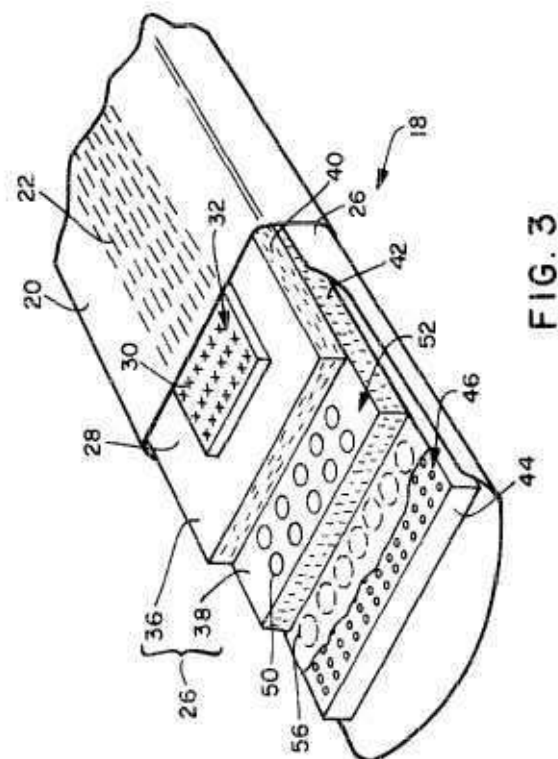
CCI - [A61F13/511](#) ; [A61F13/8405](#) ; [A61L15/46](#)

CCA - [A61F2013/51409](#) ; [A61F2013/51411](#) ; [A61F2013/51429](#) ; [A61F2013/530007](#) ; [A61F2013/530131](#) ; [A61F2013/530335](#) ; [A61F2013/530481](#) ; [A61F2013/8408](#) ; [A61F2013/8411](#) ; [A61F2013/8414](#) ; [A61F2013/842](#) ; [A61F2013/8423](#) ; [A61F2013/8426](#) ; [A61F2013/8429](#) ; [A61L2300/206](#) ; [A61L2300/404](#)

PA - KIMBERLY CLARK CO [US]

TI - MULTICOMPONENT **ODOR CONTROL DEVICE**

AB - An article for absorbing bodily fluids and controlling malodor created by the presence of the bodily fluid. The article includes a liquid **permeable** topsheet and a liquid **impermeable** backsheet forming an envelope or cavity with the topsheet. A liquid **absorbent** material is disposed between the topsheet and the backsheet. At least one bacterial growth inhibitor is generally disposed between the topsheet and the liquid **absorbent** material. An **odor control** complex is disposed between the topsheet and the backsheet and can



include a sheet form **odor control** member. The **odor control** agents forming the **odor control** complex can be protected against moisture by various artifices, including hydrophobically coating the **odor control** agent, shielding the **odor control** agent with a liquid **impermeable** sheet, and disposing the **odor control** agent where it is less likely to be contacted by moisture. The selection of combination of **odor control** agents and their relative disposition within the article are designed to enhance their effectiveness in removing malodor from the article.