

18 Documents

Publication numbers	Title	Current assignees
WO2015174895 A1	Absorbent core	SCA HYGIENE PRODUCTS
US20100152687 A1	Feminine undergarment	CARLOZZI ANTONELLA F
BR200201914 A1	Adaptable absorbent articles	MCNEIL
GB8510268 D0	Anatomical pad	KIMBERLY CLARK
SE9904198 D0	Absorbent article with main absorbing part in front portion	SCA HYGIENE PRODUCTS
EP1994917 A1	Feminine hygiene article with printed pattern and embossed pattern	PROCTER & GAMBLE
TW-553737 B	Sanitary napkin with intergluteal strip	MCNEIL
BR200003883 A1	Thong pantiliner with flaps	MCNEIL
SE9704231 D0	Absorbent article such as a sanitary towel, an incontinence protector, a pantyliner or the like	SCA HYGIENE PRODUCTS
ZA9802605 B	Absorbent item	HAKLE KIMBERLY DEUTSCHLAND
CA2143803 A1	Methods and apparatus for making multi-layer absorbent products	MCNEIL
SE9303284 D0	A sanitary napkin	MOELNLYCKE
SE200501150 L	Absorbent article having improved fit	SCA HYGIENE PRODUCTS
SE9604223 D0	Absorbent article with high stiffness	SCA HYGIENE PRODUCTS
WO200769957 A1	Absorbent article	SCA HYGIENE PRODUCTS
DE29915071 U1	Lady Hygiene Insert	SEIFFERT ANNETT
WO9739713 A1	Feminine pad shaped for use with a thong garment	DARBY KAMELA J
US2408508 A	Nonchafing catamenial pad	CANAVAN JOHN P

Absorbent core WO2015174895 A1

Current assignees

ESUSEA HYGIENE PRODUCTS ABE
SCA HYGIENE PRODUCTS*

Inventors

BURVALL ANGELICA
HÖRLE MAGDALENA

Priority data including date

2014WO-SE50588 2014-05-15
2016BR-0026077 2014-05-15
2016TH-1006713 2014-05-15

IPC - International classification

A61F-013/15*	A61F-013/45*	A61F-013/47
A61F-013/472	A61F-013/53	A61F-013/531
B29C-043/24	B29K-001/00	B29L-031/48

CPC - Cooperative classification

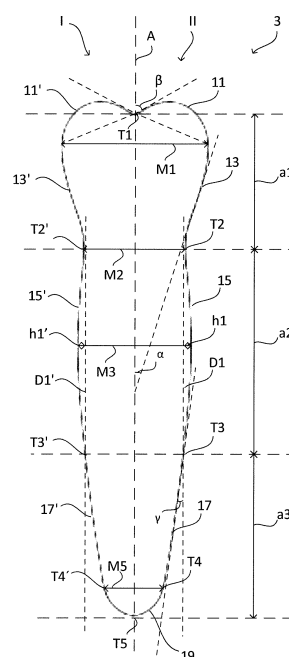
A61F-013/15/617	A61F-013/15/804	A61F-013/45
A61F-013/472	A61F-013/472/45*	A61F-013/53
A61F-2013/4708	A 6 1 F - A 6 1 F -	2 0 1 3 / 5 3 0 0 0 7 2 0 1 3 / 5 3 0 4 8 1
A 6 1 F -	B29C-043/24	B29K-2001/00
2 0 1 3 / 5 3 0 8 0 2		
B29L-2031/4878		

Family

WO2015174895	A1	2015-11-19	EP3142619	A1	2017-03-22
AU2014394157	A1	2016-10-20	JP2017518795	A	2017-07-13
BR112016026077	A1	2016-11-22	BR112016026077	A2	2017-08-15
AU2014394157	B2	2017-01-12	TH167385	A	2017-09-07
MX2016014608	A	2017-02-20	EP3142619	A4	2017-11-22
CN106456398	A	2017-02-22	RU2643607	C1	2018-02-02
US2017071798	A1	2017-03-16	US9889048	B2	2018-02-13

(EP3142619)

The invention relates to an absorbent core (3), intended for use in an absorbent product such as a panty liner. The core (3) comprises an absorbent material and a superabsorbent material. The core (3) has a first extension in a longitudinal direction and a second extension in a transverse direction, and the core has a longitudinal central line (A) extending through the core, located between a first longitudinal portion (I) and a second longitudinal portion (II). The first and second longitudinal portions (I; II) are symmetric about the longitudinal central line (A). The core has a head portion (a1), an intermediate portion (a2) and a rear portion (a3) extending in a longitudinal direction of the core. The head portion (a1) comprises mirror imaged first circular segment portions (11; 11') and first edge lines (13; 13') to which the circular segment portions (11, 11') transition. The intermediate portion (a2) comprises mirror imaged first convex edge portions (15; 15'). The rear portion (a3) comprises second edge lines (17; 17') tapering towards a rear end (T5) and the central line (A) of the core in an angle



(Y).

Feminine undergarment US20100152687 A1

Current assignees

CARLOZZI ANTONELLA
CARLOZZI ANTONELLA F*

Inventors

CARLOZZI ANTONELLA F

Priority data including date

2008US-61138343 2008-12-17
2009US-12654241 2009-12-15
2009WO-US06555 2009-12-15

IPC - International classification

A41B-009/04	A61B-019/02	A61F-013/15
A61F-013/45	A61F-013/82*	A61F-015/00

CPC - Cooperative classification

A41B-009/04	A61F-013/472/45	A61F-013/82*
A61F-013/84/05	A61F-015/00/3	

PCL - US patent classification

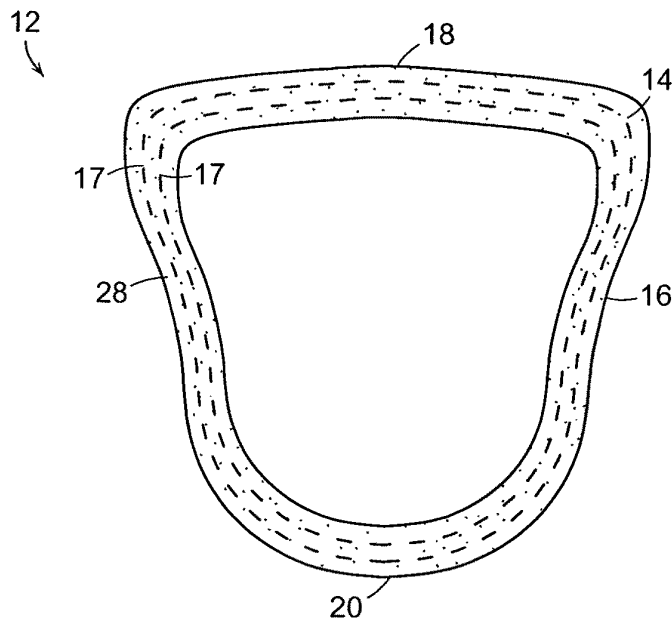
PCLO:	604359000*		
PCLX:	206440000	604367000	604378000
	604385010	604387000	

Family

US2010152687	A1	2010-06-17	CN101969909	A	2011-02-09
WO2010077306	A1	2010-07-08	SG172189	A1	2011-07-28
CA2789487	A1	2010-07-08	AU2009333850	A1	2011-08-11
PA8854701	A1	2010-07-27	EP2379038	A1	2011-10-26
AR074766	A1	2011-02-09	BRPI0922453	A2	2011-12-06

(EP2379038)

An undergarment comprises a strapless, coreless web sized and configured between an anterior end and a posterior end to cover, in use, at least the vulva of an adult female wearer. The undergarment is pre-adherent to the wearer, e.g., having pre-applied adhesive or pre-applied suction material on the body side of the web, suitable for contact with human skin and sufficiently adherent to removably hold the undergarment in place during use. In another aspect, a feminine undergarment comprises such pre-adherent strapless, coreless web with a removable protective cover over at least the adhesive. In another aspect, a package of feminine undergarments comprises outer packaging containing at least multiple of such feminine undergarments and optionally inner packaging for each of the undergarments individually.



Adaptable absorbent articles BR200201914 A1

<u>Current assignees</u> JOHNSON & JOHNSON MCNEIL*	<u>IPC - International classification</u> A61F-013/15 A61F-013/47 A61F-013/472 A61F-013/474*
<u>Inventors</u> FERNANDEZ-KLEINKLEIN ELENA MANGIN SOPHIE	<u>CPC - Cooperative classification</u> A61F-013/47/04* A61F-013/474
<u>Priority data including date</u> 2001US-09863529 2001-05-23 2001US-09962425 2001-09-25 2002EP-0253583 2002-05-22	<u>PCL - US patent classification</u> PCLO: 604385010* 604385010* PCLX: 604385030 604387000

Family					
BRPI0201914	A1	2002-07-02	EP1757257	A3	2007-05-02
CA2386271	A1	2002-11-23	EP1260205	B1	2008-08-27
EP1260205	A2	2002-11-27	AT406148	T	2008-09-15
AU4068302	A	2002-11-28	DE60228520	D1	2008-10-09
US2002177832	A1	2002-11-28	ES2311579	T3	2009-02-16
US2002177830	A1	2002-11-28	EP1260205	B9	2009-04-08
CN1386483	A	2002-12-25	EP1260205	B9	2009-04-08
BR0201914	A	2003-04-22	CA2386271	C	2009-12-29
MXPA02005128	A	2003-10-06	BRPI0201914	A2	2010-01-26
AR034706	A1	2004-03-17	BR0201914	B1	2011-07-26
EP1260205	A3	2004-05-26	EP1260205	B2	2012-11-28
CN1234330	C	2006-01-04	ES2311579	T5	2013-03-13
EP1757257	A2	2007-02-28	EP1757257	B1	2013-11-06

(EP1757257)

A user adaptable absorbent article having a silhouette with a first end and a second end, wherein the second end being in opposite relation to the first end, and a first longitudinally extending edge opposed to a second longitudinally extending edge, the longitudinally extending edges connecting the first end and the second end; a layered portion having an absorbent core with an asymmetric shape and a backsheet; and means for folding a portion of the absorbent article located either from or between at least one of the longitudinally extending edges and at least one of the ends, wherein the fold avoids the absorbent core.

Anatomical pad GB8510268 D0

Current assignees

KIMBERLY CLARK*

Inventors

LASSEN, FREDERICH O.

MASTEN, DIANNE S.

SCHULTZ, CHERI L.

PEERENBOOM, ROBERT J.

Priority data including date

1984US-06603064 1984-04-23

IPC - International classification

A61F-013/15 A61F-013/472*

CPC - Cooperative classification

A61F-013/472/27* A61F-013/472/45 A61F-013/534

A61F-013/534/18 A61F-013/534/27 A61F-013/537

A61F-2013/4581 A61F-2013/4708 A 6 1 F -
2 0 1 3 / 5 3 0 1 3 1

A 6 1 F - A61F-2013/53445 A61F-2013/53721
2 0 1 3 / 5 3 0 4 8 1

PCL - US patent classification

PCLO: 604370000*

PCLX: 604378000 604385010 D24125000

Family

[GB8510268](#) D0 1985-05-30

[GB2157571](#) A 1985-10-30

[EP0159671](#) A2 1985-10-30

[AU4146885](#) A 1985-10-31

[JPS60234660](#) A 1985-11-21

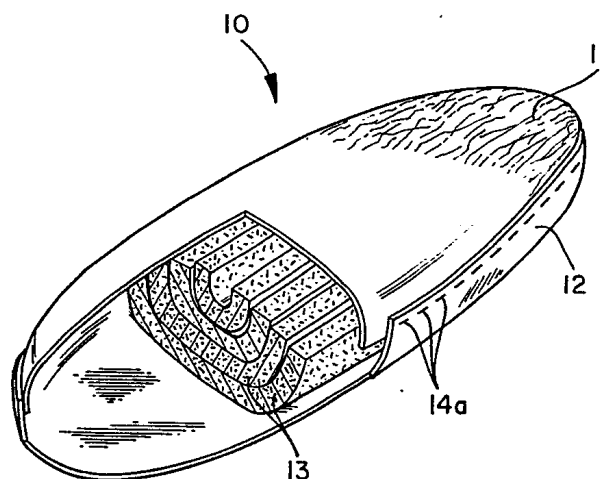
[BR8501899](#) A 1985-12-24

[EP0159671](#) A3 1986-07-30

[US4627848](#) A 1986-12-09

(EP-159671)

An anatomical liner is provided which is ellipsoidal in both horizontal and vertical cross-section and is designed to be positioned and maintained within the vulva without penetrating the vaginal canal.



Absorbent article with main absorbing part in front portion SE9904198 D0

<u>Current assignees</u> SCA HYGIENE PRODUCTS*	<u>IPC - International classification</u> A61F-013/15 A61F-013/472* A61F-013/535 A61L-015/16
<u>Inventors</u> DREVIK SOLGUN	<u>CPC - Cooperative classification</u> A61F-013/472/54* A61F-013/476 A61F-013/532 A61F-013/535
<u>Priority data including date</u> 1999SE-0004198 1999-11-18 2000WO-SE02258 2000-11-17	<u>PCL - US patent classification</u> PCLO: 604385040* PCLX: 604385010 604385030 604385101

<u>Family</u>			
SE9904198	D0	1999-11-18	RU2002116219 A 2004-02-27
SE9904198	L	2001-05-19	PL355509 A1 2004-05-04
WO200135888	A1	2001-05-25	EP1244408 B1 2005-03-23
FR2801195	A3	2001-05-25	AT291406 T 2005-04-15
AU1566201	A	2001-05-30	DE60018976 D1 2005-04-28
PE06532001	A1	2001-06-22	US6908456 B1 2005-06-21
FR2801195	B3	2001-11-02	DK1244408 T3 2005-07-11
TNSN00220	A1	2002-05-30	RU2259810 C2 2005-09-10
CO5180602	A1	2002-07-30	ES2239049 T3 2005-09-16
SK5022002	A3	2002-08-06	DE60018976 T2 2006-03-23
EP1244408	A1	2002-10-02	DE60018976 T8 2006-06-08
MXPA02003878	A	2002-10-23	PL206555 B1 2010-08-31
AR026440	A1	2003-02-12	

(EP1244408)

The invention relates to an absorbent product with a longitudinal direction and a transverse direction, two side edges (109, 110) extending essentially in the longitudinal direction, a front portion (114), a rear portion (115), a first surface and a second surface, and an absorption body (105) arranged between the first surface and the second surface. The absorbent product is essentially triangular in shape, the front portion (114) being wider than the rear portion (115). The absorption body (105) also has a main absorption part (106) which is shaped and positioned in such a manner in the plane of the product that at least 85 % of the total absorption capacity of the product is in the front three quarters of the length of the product and at least 70 % of the absorption capacity is found in the front half of the product.

Feminine hygiene article with printed pattern and embossed pattern EP1994917 A1

<u>Current assignees</u>	<u>IPC - International classification</u>		
PROCTER & GAMBLE*	A61F	A61F-013/15*	A61F-013/20
	A61F-013/472	A61F-013/511	A61F-013/514*
	A61F-013/53	A61F-013/56	A61F-013/84
	B32B	B32B-003/30	
<u>Inventors</u>	<u>CPC - Cooperative classification</u>		
ECKER CORNELIA	A61F-013/472	A61F-013/511/04	A61F-013/513
GAGLIARDI IVANO	A61F-013/514/96*	A61F-013/514/98	A61F-013/53
VEGLIO PAOLO A	A61F-013/539	A61F-013/551/4	A61F-013/56/11
	A61F-013/56/16	A61F-013/84	A61F-2013/4708
	A61F-2013/51377	A61F-2013/5149	A 6 1 F - 2 0 1 3 / 5 3 0 0 3 6
	A61F-2013/5395	A61F-2013/8497	
	<u>PCL - US patent classification</u>		
	PCLO:	604385010*	604374000* 604380000*
	PCLX:	604385010*	604385050

Family					
EP1994917	A1	2008-11-26	EP1994917	B1	2011-06-22
US2008294140	A1	2008-11-27	RU2009141776	A	2011-07-10
WO2008146222	A1	2008-12-04	AT513536	T	2011-07-15
CA2688350	A1	2008-12-04	ES2368352	T3	2011-11-16
AU2008256307	A1	2008-12-04	EG25697	A	2012-05-22
AR066675	A1	2009-09-02	RU2454981	C2	2012-07-10
MX2009012736	A	2009-12-10	JP5048126	B2	2012-10-17
KR20100005140	A	2010-01-13	CN101677885	B	2013-06-12
CN101677885	A	2010-03-24	US8536401	B2	2013-09-17
IN7261/DELNP/2009	A	2010-06-25	US2013338621	A1	2013-12-19
IL202294	A	2010-06-30	EP2250984	B1	2014-03-05
ZA200907713	B	2010-07-28	ES2461165	T3	2014-05-19
JP2010527682	A	2010-08-19	BRPI0812301	A2	2014-11-25
EP2250984	A1	2010-11-17	US2015080824	A1	2015-03-19

(EP2250984)

A feminine hygiene article (10), such as pantiliner, comprising a topsheet (16), a backsheet (20), a printed pattern (12) and an embossed pattern (14). The printed pattern (12) is printed on a layer (20) of the article (10) situated below the absorbent core (18), and at least a portion of the printed pattern (12) is visible through at least a portion of the area of the topsheet (25) which is outside the core area (24). The embossed pattern (14) is at least partially embossed within the core area (24), and comprises a decorative element (140).

Sanitary napkin with intergluteal strip TW-553737 B

<u>Current assignees</u> MCNEIL* <u>Inventors</u> GLASGOW TARA BARR JAMES P GELL CAROL B RIAL ROBERT SHABAZZ-HOUSTON SAFIYYA LUIZZI JOSEPH LOUIE LAI HING MAVINKURVE PRAMOD S <u>Priority data including date</u> 2000US-09747208 2000-12-22 2003US-10397949 2003-03-26	<u>IPC - International classification</u> A61F-013/15* A61F-013/56 A61F-013/82 <u>CPC - Cooperative classification</u> A61F-013/472/27* A61F-013/472/45 A61F-013/472/72 A61F-013/56/05 A61F-013/82 <u>PCL - US patent classification</u> PCLO: 604300000* 604385170* PCLX: 604385010 604385030 604385040 604385050
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<u>Family</u>			
TW553737	B	2003-09-21	US2004002686
US6632210	B1	2003-10-14	A1 2004-01-01

(US6632210)

A sanitary napkin has a strip that extends rearwardly to reside in the intergluteal crevice. The pad fits snugly against the body without penetrating. Because the strip provides improved body contact, similar protection is achieved with a smaller pad, thus providing a discretion benefit to the wearer. </PTEXT>

Thong pantiliner with flaps BR200003883 A1

Current assignees

JOHNSON & JOHNSON

MCNEIL*

MCNEIL* PPC

Inventors

NEUMANN DE CAMACHO MARIA MONIK

RIBEIRO DE CARVALHO ANTONIO CA

HAARER JUTTA S

LUZANO JAMES

PASSOS PROGLHOF IGOR PHILIP

Priority data including date

2000US-09538010 2000-03-29

IPC - International classification

A61F-013/15

A61F-013/476*

A61F-013/56

CPC - Cooperative classification

A61F-013/472/54*

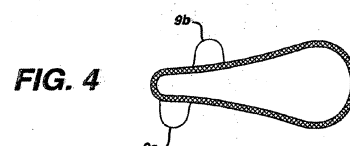
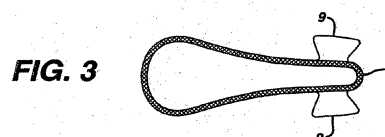
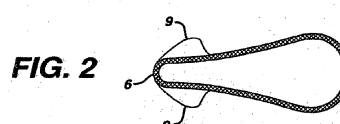
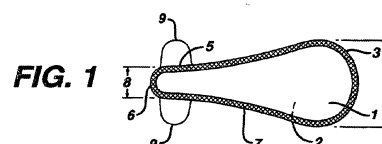
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Family

BRPI0003883	A1	2000-11-28	DE60015068	D1	2004-11-25
CA2318699	A1	2001-09-29	PT1138294	E	2005-01-31
CN1315168	A	2001-10-03	ES2230013	T3	2005-05-01
EP1138294	A1	2001-10-04	AU781484	B2	2005-05-26
AU5342200	A	2001-10-04	CN1204863	C	2005-06-08
KR20010093621	A	2001-10-29	HK1040902	A1	2005-07-08
BR0003883	A	2001-11-27	RU2257187	C2	2005-07-27
CO5121077	A1	2002-01-30	DE60015068	T2	2006-02-16
ZA200004163	B	2002-02-15	IN0459/KOL/2000	A	2006-02-17
MXPA00008217	A	2002-04-24	IN0459/CAL/2000	A	2006-02-17
NZ506339	A	2002-05-31	IN206858	B	2007-05-18
AR025336	A1	2002-11-20	EP1138294	B2	2008-06-11
EP1138294	B1	2004-10-20	ES2230013	T5	2008-12-01
AT279893	T	2004-11-15	DE60015068	T3	2009-08-13

(EP1138294)

A pantiliner for use with thong underwear is disclosed and claimed. The pantiliner includes a pair of flaps extending from each side of the posterior portion of the pantiliner, at least one of said flaps being adjacent to the posterior end of the pantiliner. <IMAGE>



Absorbent article such as a sanitary towel, an incontinence protector, a pantyliner or the like
SE9704231 D0

<u>Current assignees</u> SCA HYGIENE PRODUCTS* <u>Inventors</u> DREVIK SOLGUN <u>Priority data including date</u> 1997SE-0004231 1997-11-19 1998WO-SE02066 1998-11-17	<u>IPC - International classification</u> A61F-005/44 A61F-013/15 A61F-013/49 A61F-013/53* <u>CPC - Cooperative classification</u> A61F-013/472/18* A61F-013/472/45 A61F-013/472/63 A61F-013/472/72 A61F-013/475/8 <u>PCL - US patent classification</u> PCLO: 604385010* PCLX: 604385170 604385240 604385270 D24124000
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Family					
SE9704231	D0	1997-11-19	PL340957	A1	2001-03-12
SE9704231	L	1999-05-20	CO5070629	A1	2001-08-28
ZA9810551	B	1999-05-25	JP2001522695	A	2001-11-20
WO9925282	A1	1999-05-27	AU741020	B2	2001-11-22
AU1267999	A	1999-06-07	US6398770	B1	2002-06-04
PE00382000	A1	2000-01-24	EP1033954	B1	2003-02-05
EP1033954	A1	2000-09-13	AT232076	T	2003-02-15
SK5762000	A3	2000-10-09	DE69811267	D1	2003-03-13
TNSN98212	A1	2000-12-29	DE69811267	T2	2003-12-04

(EP1033954)

Absorbent article, such as a sanitary towel, an incontinence protector or a pantyliner, which article has essentially an elongate shape, with a longitudinal direction (34) and a transverse direction (35), and has two end portions (10, 11) and a central portion (12) situated between the end portions (10, 11), and on which article there is arranged elastic (18) which gives the article a cup-shaped part (14) at the one end portion (10) and a ridge-like elevation (15) at the other end portion (11).

Absorbent item ZA9802605 B

<u>Current assignees</u> HACK KIMBERLY DEUTSCHE HAKLE KIMBERLY HAKLE KIMBERLY DEUTSCHLAND* KIMBERLY CLARK <u>Inventors</u> RAIDEL MARIA ASCHENBRENNER FRANZ <u>Priority data including date</u> 1997DE-1013189 1997-03-27 1997DE-1013190 1997-03-27 1998DE-1006575 1998-02-17 1998DE-1080381 1998-03-23 1998DE-5002726 1998-03-23 1998WO-EP01684 1998-03-23	<u>IPC - International classification</u> A61F-005/44 A61F-013/15* A61F-013/49 A61F-013/53 A61L-015/16 A61L-015/20 A61L-015/26 A61L-015/60* <u>CPC - Cooperative classification</u> A61F-013/472/18* A61F-013/472/36 A61F-013/475/1* A61F-013/475/8 A61F-013/53 A61F-013/532/3 A61F-013/535 A61F-013/536 A61F-013/84/05 A61F-2013/4708 A61L-015/26 A61L-015/60 <u>PCL - US patent classification</u> PCLO: 604367000*
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<u>Family</u>				
ZA9802605	B	1998-09-30	AU723801	C 2001-07-19
DE19806575	A1	1998-10-01	CO5060463	A1 2001-07-30
DE19713189	A1	1998-10-01	JP2001517121	A 2001-10-02
WO9843684	A1	1998-10-08	EP0971751	B1 2001-11-21
CA2283406	A1	1998-10-08	AT209049	T 2001-12-15
AU7040198	A	1998-10-22	DE59802726	D1 2002-02-21
SV1998000044	A	1999-01-14	ES2167073	T3 2002-05-01
PE66299	A1	1999-07-07	TW522830	U 2003-03-01
EP0971751	A1	2000-01-19	CN1121878	C 2003-09-24
TR9902370	T2	2000-01-21	RU2213548	C2 2003-10-10
BR9808067	A	2000-03-08	IL131456	B 2004-06-01
BRPI9808067	A1	2000-03-08	US6965058	B1 2005-11-15
PL335872	A1	2000-05-22	PL190649	B1 2005-12-30
PA8449501	A1	2000-05-24	MY124644	A 2006-06-30
SK131399	A3	2000-06-12	KR100623551	B1 2006-09-13
CN1260726	A	2000-07-19	IN0634/CHE/1998	A 2006-10-27
AU723801	B2	2000-09-07	IN208543	B 2007-08-31
AR012169	A1	2000-09-27	JP4157167	B2 2008-09-24
ID25892	A	2000-11-09	BRPI9808067	A2 2009-09-01
KR20010005620	A	2001-01-15	DE19880381	B3 2010-05-06
IL131456	A	2001-01-28	BR9808067	B1 2011-06-28

(EP-971751)

The invention relates to an absorbent item comprising a liquid-permeable layer (18) which faces the body when the item is in use, a liquid-impermeable layer (20) which faces away from the body when the item is in use, and an absorbent

element positioned between said liquid-permeable layer (18) and said liquid-impermeable layer (20). This absorbent element contains an absorbent material (32) which remains free-flowing even after contact with a liquid. The invention also relates to an absorbent item which has a liquid-impermeable layer which faces away from the body when the item is in use and an absorbent element which is surrounded by a liquid-permeable layer, said absorbent element containing a material which remains free-flowing and absorbent even after contact with a liquid. The absorbent element is joined to the liquid-impermeable layer in a central area of said layer.

Methods and apparatus for making multi-layer absorbent products CA2143803 A1

Current assignees

MCNEIL*
PERSONAL PRODUCTS

Inventors

MENARD MICHAEL J

Priority data including date

1994US-08204127 1994-03-02
1995EP-0102914 1995-03-01
1995US-08452449 1995-05-26
SG1995000040 1995-03-01

IPC - International classification

A61F-013/15	A61F-013/472	A61F-013/49*
A61F-013/53	B26D-011/00	B26F-001/38
B32B-005/22		

CPC - Cooperative classification

A61F-013/15/723	A61F-013/15/747	A61F-013/472*
A61F-013/534/09	A61F-2013/1591	A61F-2013/15918
A61F-2013/4568	A61F-2013/4708	A61F-2013/49082
A 6 1 F - A 6 1 F - A 6 1 F -		
2 0 1 3 / 5 3 0 0 0 7	2 0 1 3 / 5 3 0 2 5 5	2 0 1 3 / 5 3 0 2 9 9
A61F-2013/53051	A61F-2013/53445	A61F-2013/8408
A61F-2013/8414	B26D-011/00	B26F-001/38/4
Y10T-156/1051	Y10T-156/1074	Y10T-156/1075

PCL - US patent classification

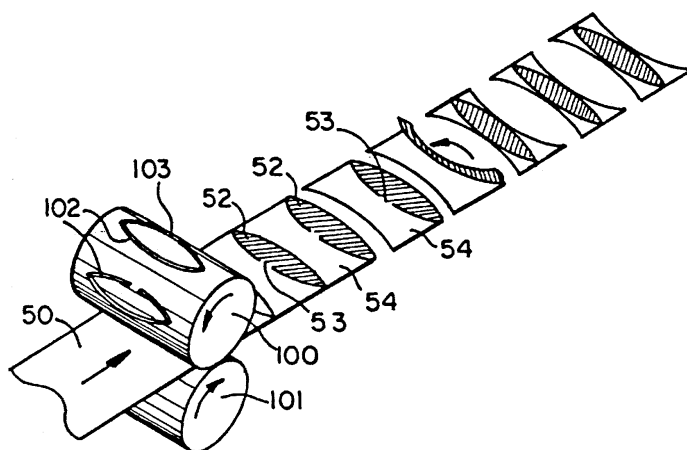
PCLO: 156263000*
PCLX: 156227000 156264000

Family

CA2143803	A1	1995-09-03	EP0670153	B1	1998-12-23
EP0670153	A1	1995-09-06	AT174781	T	1999-01-15
AU1359495	A	1995-09-07	DE69506751	D1	1999-02-04
JPH07313548	A	1995-12-05	ES2125502	T3	1999-03-01
SG24091	A1	1996-02-10	GR3029429	T3	1999-05-28
TW276989	B	1996-06-01	DE69506751	T2	1999-07-22
US5562793	A	1996-10-08	DK0670153	T3	1999-08-23
NZ270582	A	1997-02-24	SI0670153	T1	1999-12-31
AU680985	B2	1997-08-14	HK1012546	A1	2000-05-05
PH31502	A	1998-11-03	CA2143803	C	2006-06-20

(EP-670153)

Improved method and apparatus for forming absorbent products and the improved absorbent products formed thereby are disclosed. In a first embodiment of the present invention, a rotary die (100) is used to cut ellipsoidal and hyperbolic-shaped portions (52, 54) from a single sheet of material (50) and these shapes are overlaid to form an absorbent structure. The shapes are chosen such that there is no waste of the material and yet the resulting absorbent structure is of a useful shape. Methods are also disclosed whereby two sets of rotary dies are used to simultaneously cut two sheets of material into an arcuate segment and the arcuate segments are overlaid atop each other to form



useful absorbent structures. In either embodiment, powders such as superabsorbents may be added to one or more of the surfaces of the components used to construct the absorbent structures. <IMAGE>

A sanitary napkin SE9303284 D0

Current assignees

MOELNLYCKE*
SCA HYGIENE PRODUCTS

Inventors

JOHANSSON KERSTIN

Priority data including date

1993SE-0003284 1993-10-07
1994WO-SE00933 1994-10-06

IPC - International classification

A61F-013/15 A61F-013/534* A61F-013/72

CPC - Cooperative classification

A61F-013/472 A61F-013/472/45 A61F-013/472/54
A61F-013/472/63 A61F-013/472/72 A61F-013/49/011
A61F-013/491 A61F-013/496 A61F-013/514/78
A61F-013/534 A61F-013/535* A61F-013/537/04
A61F-013/72 A61F-2013/49026 A61F-2013/49031
A61F-2013/51409 A61F-2013/51411 A61F-2013/53734
A61F-2013/53782 A61F-2013/53786

PCL - US patent classification

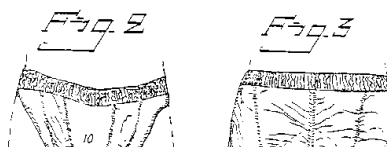
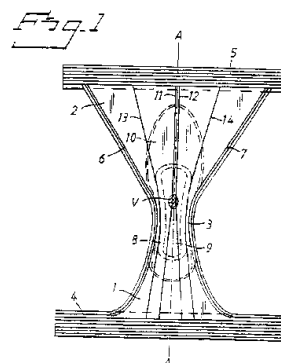
PCLO: 604387000*
PCLX: 604378000 604385230

Family

SE9303284	D0	1993-10-07	GB2282541	B	1997-10-08
GB9418770	D0	1994-11-02	HUT76696	A	1997-10-28
SE9303284	L	1995-04-08	AU686244	B2	1998-02-05
GB2282541	A	1995-04-12	NZ274287	A	1998-02-26
WO9509592	A1	1995-04-13	SE507964	C2	1998-08-03
CA2172057	A1	1995-04-13	US5792129	A	1998-08-11
TNSN94098	A1	1995-04-25	PL176086	B1	1999-04-30
AU7827394	A	1995-05-01	EP0776186	B1	2000-02-09
ZA9407085	B	1995-05-03	AT189597	T	2000-02-15
CO4290336	A1	1996-04-17	DE69423011	D1	2000-03-16
HU9600849	D0	1996-05-28	ES2145156	T3	2000-07-01
CZ9600985	A3	1996-07-17	DK776186	T3	2000-07-24
PL313784	A1	1996-07-22	DE69423011	T2	2000-09-14
SK37796	A3	1997-02-05	WO9509592	A8	2001-04-26
JPH09504195	A	1997-04-28	CZ288268	B6	2001-05-16
EP0776186	A1	1997-06-04	SK282417	B6	2002-01-07

(EP-776186)

The present invention relates to a sanitary napkin or like absorbent article, such as a sanitary pantie or incontinence guard, comprising an absorbent body (8) which is enclosed between a fluid-permeable (15) and a fluid-impermeable casing sheet (17). According to the invention, the absorbent body (8) comprises a primary absorbent body (9) having the capacity to absorb all fluid discharged from a user over an intended article use period, and a secondary absorbent body (10) whose area is at least 50 % larger than the area



of the primary absorbent body.

Absorbent article having improved fit SE200501150 L

Current assignees

ATLAS COPCO ROCK DRILLS
SCA HYGIENE PRODUCTS*

Inventors

WALLSTRÖM LEIF
ELFSBERG CAMILLA

Priority data including date

2005SE-0001150 2005-05-23
2005SE-0001150 2005-07-13
2005SE-0011507 2005-05-23
2005WO-SE01150 2005-07-13
2006WO-SE00581 2006-05-19
2007US-11919564 2007-10-30
2008RU-0105414 2005-07-13
2010US-12799130 2010-04-19

IPC - International classification

A61F-013/15*	A61F-013/20	A61F-013/47
A61F-013/472	A61F-013/53	A61F-013/532
A61F-013/533	A61F-013/534	B25D
B25D-009/00	B25D-017/24	E21B
E21B-001/00	E21B-001/24	E21B-044/00
E21B-044/06	E21B-047/12	

CPC - Cooperative classification

A61F-013/47/04*	A61F-013/472/18	A61F-013/533
B25D-017/24/5	B25D-2250/221	E21B-001/02*
E21B-044/06		

PCL - US patent classification

PCLO:	604378000*	175024000*	175040000*
PCLX:	175040000*	175296000	604317000
604358000	604365000	604367000	604379000
604380000	604382000	604384000	604385010
604385030	604385040		

Family

SE0501150	L	2006-11-24	TNSN08008	A1	2009-07-14
WO2006126933	A1	2006-11-30	RU2008105414	A	2009-08-20
CA2608756	A1	2006-11-30	SA2316	B1	2009-11-15
AU2006250111	A1	2006-11-30	RU2379015	C2	2010-01-20
WO2007008125	A1	2007-01-18	US2010025106	A1	2010-02-04
CA2611329	A1	2007-01-18	US2010258326	A1	2010-10-14
AU2005334268	A1	2007-01-18	US7825291	B2	2010-11-02
WO2006126933	A8	2007-03-15	EG24914	A	2010-12-21
SE529036	C2	2007-04-17	US7886843	B2	2011-02-15
NO20076618	A	2007-12-21	AU2006250111	B2	2011-04-07
EP1888877	A1	2008-02-20	CN101203201	B	2011-06-08
EP1901692	A1	2008-03-26	AU2005334268	B2	2011-08-25
MX2007015833	A	2008-04-09	JP4769863	B2	2011-09-07
US2008103468	A1	2008-05-01	EP1901692	A4	2011-10-19
CN101180450	A	2008-05-14	US8056648	B2	2011-11-15
CN101203201	A	2008-06-18	CN101180450	B	2012-01-18
IN10149/DELNP/2007	A	2008-06-20	JP4954998	B2	2012-06-20
IN4062/KOLNP/2007	A	2008-07-18	CA2608756	C	2014-02-04
JP2008542587	A	2008-11-27	EP1901692	B1	2014-08-27
JP2009501053	A	2009-01-15	BRPI0520435	B1	2016-05-03
ZA200709770	B	2009-03-25	BRPI0520435	B8	2016-05-03
BRPI0520435	A2	2009-05-12	BRPI0520435	B8	2016-08-23
BRPI0520435	A2	2009-05-12			

(EP1901692)

The present invention relates to an absorbent article (10) having front (12), crotch (14) and rear (16) portions. The article comprises an absorbent core (18) of unitary construction and of uniform density, which is defined by a pair of opposing longitudinal edges (20;22) and a pair of opposing transverse edges (24;26). The absorbent core (18) has at least a first (28) and a second (30) region, the average thickness of the absorbent core (18) in these first and second regions (28, 30) being lower than the average thickness of the absorbent core (18) surrounding said first and second regions (28;30), said first and second lower thickness regions (28;30) being arranged symmetrically about the longitudinal centre line A of the article such that each of the first and second lower thickness regions (28;30) extends to the respective longitudinal edge (20;22) of the absorbent core. The distance a_x between said first and second lower thickness regions (28;30) in the transverse direction varying along the longitudinal direction of the article. A minimum distance a_l between said first and second lower thickness regions (28;30) in the transverse direction is located at least in the transition (32) between the crotch portion (14) and the front portion (12). The article provides good, secure fit and high comfort to the wearer.

Absorbent article with high stiffness SE9604223 D0

<u>Current assignees</u> MOELNLYCKE SCA HYGIENE PRODUCTS* <u>Inventors</u> BJOERKLUND CAMILLA WIDLUND URBAN SAMUELSSON ANN DREVIK SOLGUN GUSTAFSSON ANDERS <u>Priority data including date</u> 1996SE-0004223 1996-11-15 1997WO-SE01881 1997-11-11	<u>IPC - International classification</u> A61F-013/00* A61F-013/15 A61F-013/472 <u>CPC - Cooperative classification</u> A61F-013/47/02* A61F-013/472/09 A61F-2013/455 A61F-2013/49493 <u>PCL - US patent classification</u> PCLO: 604385010* PCLX: 604385170
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Family					
SE9604223	D0	1996-11-15	SE513198	C2	2000-07-31
GB9724015	D0	1998-01-14	AU723921	B2	2000-09-07
SE9604223	L	1998-05-16	NZ335372	A	2000-11-24
GB2319185	A	1998-05-20	KR20000068993	A	2000-11-25
WO9822057	A1	1998-05-28	JP2001504724	A	2001-04-10
CA2271053	A1	1998-05-28	US6350257	B1	2002-02-26
ZA9709875	B	1998-05-28	EP0944372	B1	2002-02-27
AU5074498	A	1998-06-10	AT213614	T	2002-03-15
PE13699	A1	1999-03-04	DE69710767	D1	2002-04-04
EP0944372	A1	1999-09-29	DK944372	T3	2002-06-10
PL333350	A1	1999-12-06	DE69710767	T2	2002-10-24
TNSN97177	A1	1999-12-31	ES2174238	T3	2002-11-01
CO4900013	A1	2000-03-27	TW515279	U	2002-12-21
SK61999	A3	2000-05-16	RU2203641	C2	2003-05-10
GB2319185	B	2000-05-24			

(EP-944372)

The invention relates to an absorbent article such as a sanitary napkin, an incontinence guard, or a panty-liner, which article has a generally elongated shape with a longitudinal direction and a transverse direction and exhibits two side edges (9, 10), two end portions (6, 7), and a crotch portion (8) located between the end portions (6, 7), which article further exhibits a liquid-pervious cover layer (2), intended to be facing the user during use, and a liquid-impervious cover layer (3), intended to be facing away from the user during use. The article comprises at least within the crotch portion (8) a stiffening element (15) of a material with a very high intrinsic stiffness, whereby the article in the crotch portion (8) has an extension in the transverse direction which during use of the article is between 40 mm and 15 mm and preferably is between 20 mm and 35 mm.

Absorbent article WO200769957 A1

<u>Current assignees</u> SCA HYGIENE PRODUCTS* <u>Inventors</u> HAKANSSON CARIN KLINTE ANNA HERMANSSON KENT BOISSIER ELISABETH HARSJOE MARIA HJALMARSSON LENNART <u>Priority data including date</u> 2005WO-SE01947 2005-12-15 2008RU-0128829 2005-12-15 PCTSE05001947 2007-12-15	<u>IPC - International classification</u> A61F-013/15* A61F-013/475 A61F-013/53 <u>CPC - Cooperative classification</u> A61B-005/08/09 A61B-005/145 A61B-005/4818 A61F-013/47/04 A61F-013/472/36 A61F-013/535* <u>PCL - US patent classification</u> PCLO: 604385040* PCLX: 604380000 604385201
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Family					
WO2007069957	A1	2007-06-21	RU2387426	C2	2010-04-27
CA2629200	A1	2007-06-21	EP1959892	A4	2010-06-02
AU2005339192	A1	2007-06-21	CN101374484	B	2011-05-25
EP1959892	A1	2008-08-27	US2011178491	A1	2011-07-21
IN4107/DELNP/2008	A	2008-12-26	EP1959892	B1	2012-02-08
CN101374484	A	2009-02-25	AT544435	T	2012-02-15
JP2009519096	A	2009-05-14	US8764718	B2	2014-07-01
BRPI0520750	A2	2009-05-26	BRPI0520750	B1	2016-01-05
RU2008128829	A	2010-01-20			

(EP1959892)

The present invention relates to an absorbent article, especially an incontinence pad, having a length and a width extension, said length being greater than said width, and comprising absorbent core material, wherein the outer longitudinal edges of said absorbent material form three convex lobes (2, 3, 4), wherein a pair of folding lines (5) extend between the longitudinal ends of the middle one (3) of said three lobes (2, 3, 4), so as to divide the absorbent core material into a central portion (6) and a pair of longitudinal side portions (7), such that, when the article (1) is in use, the folding lines (5) are generally positioned so as to extend along the crotch area of the user, starting from the gracilis tendons and ending in the region of the perineum, whereby the side portions (7) may extend from the central portion (6) towards the user so as to form an arc shape as seen in a transversal direction of the article (1).

Lady Hygiene Insert DE29915071 U1

Current assignees

SEIFFERT ANNETT*

Priority data including date

1999DE-2015071 1999-08-27

IPC - International classification

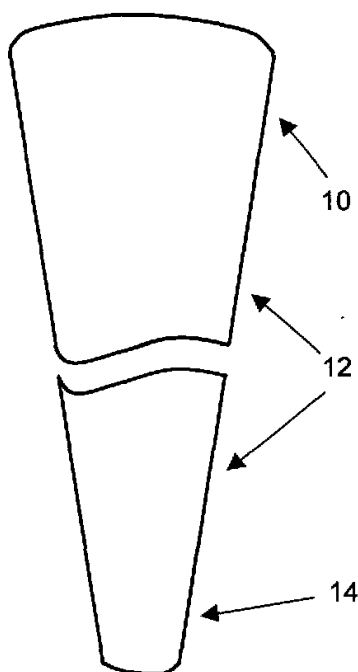
A61F-013/15*

CPC - Cooperative classification

A61F-013/472/54* A61F-2013/4708

Family[DE29915071](#)

U1 2000-01-13



Feminine pad shaped for use with a thong garment WO9739713 A1

Current assignees

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DARBY; KAMELA J.
KAMELA J DARBY

Inventors

DARBY KAMELA J

Priority data including date

1996US-08636001 1996-04-22
1997WO-US06826 1997-04-21

IPC - International classification

A61F-013/15*

CPC - Cooperative classification

A61F-013/472/54*

PCL - US patent classification

PCLO: 604385010*

PCLX: 604387000

Family

[WO9739713](#) A1 1997-10-30

[CA2252381](#) A1 1997-10-30

[US5683373](#) A 1997-11-04

[AU2680697](#) A 1997-11-12

[EP0920292](#) A1 1999-06-09

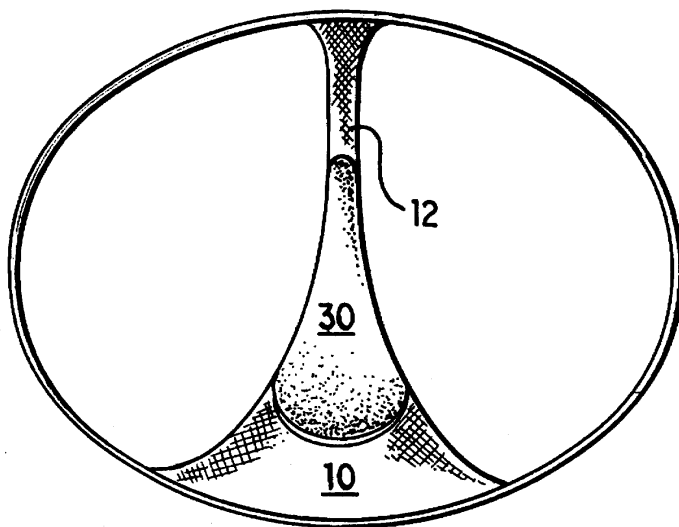
[AR006792](#) A1 1999-09-29

[AU725437](#) B2 2000-10-12

[TW423311](#) U 2001-02-21

(EP-920292)

A feminine sanitary pad (30) shaped to fit the contours of a thong style garment (10) from the front of the wearer of that garment to beyond the crotch of the wearer. The pad is generally "V" shaped, so that the vertex (38) of the "V" can be positioned below and externally of the vagina of the wearer. The lower end portion (35) of the pad is uniform in width along the greater portion of its length.



Nonchafing catamenial pad US2408508 A

Current assignees

CANAVAN JOHN P

Inventors

CANAVAN JOHN P

Priority data including date

1942US-02467491 1942-12-01

IPC - International classification

A61F-013/15*

CPC - Cooperative classification

A61F-013/472/45* A61F-013/472/54

PCL - US patent classification

PCLO: 604385010*

PCLX: 604366000

Family[US2408508](#)

A 1946-10-01

