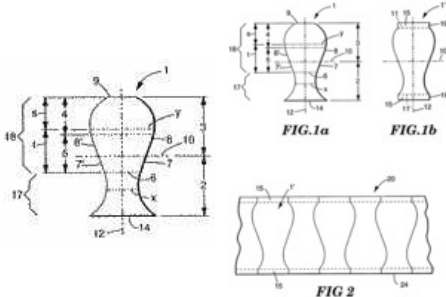


1740 results for ((diaper)/TI/AB/IW/CLMS/DESC/ODES/OBJ/ADB/ICLM/KEYW/TX AND (fastening 5d tab+)/TI/AB/IW/CLMS/DESC/ODES/OBJ/ADB/ICLM/KEYW/TX AND (adhesive+)/TI/AB/IW/CLMS/DESC/ODES/OBJ/ADB/ICLM/KEYW/TX AND (fold+)/TI/AB/IW/CLMS/DESC/ODES/OBJ/ADB/ICLM/KEYW/TX) - Collection: FAMPAT

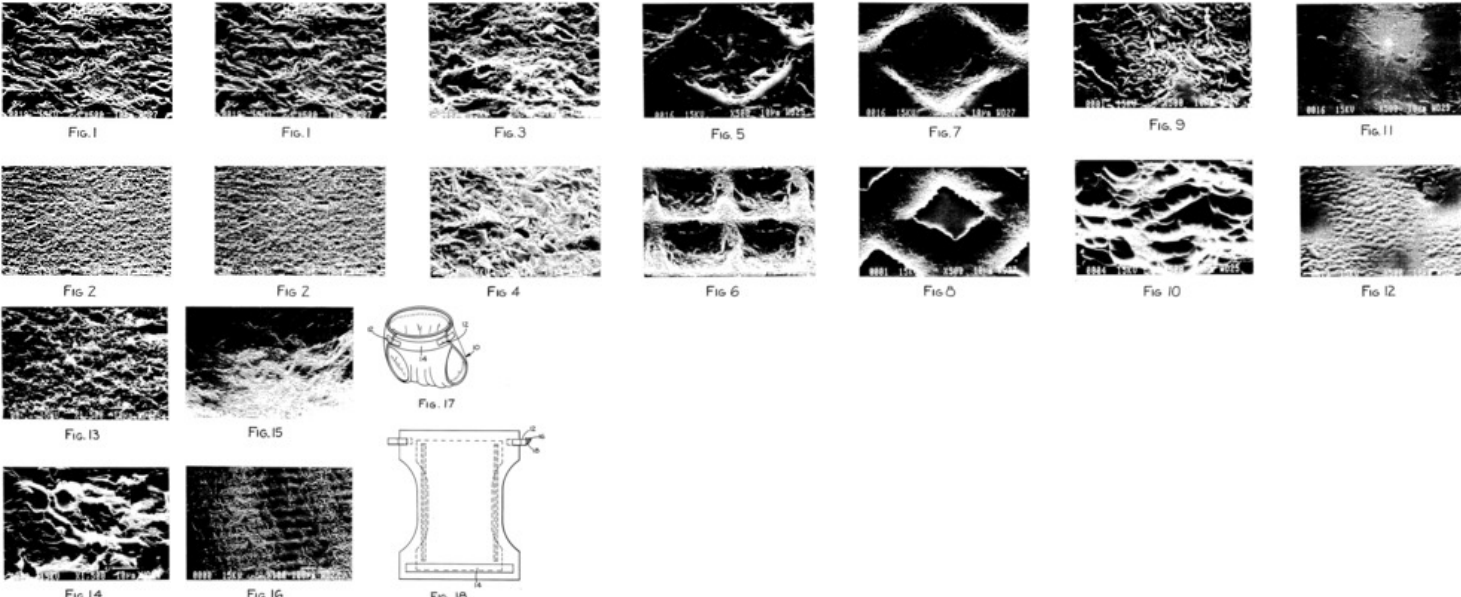
#	Title	Publication number	1st app. date	Applicant/Assignee	1st publ. date	Publ. date
1.	Rounded corner fastening tab diaper closure	WO9603954	1994-08-05	3M*	1996-02-15	1996-02-15

A **fastening tab** for a disposable **diaper** having a second half (3) with a maximum width y and a first half (2) with a minimum width x. Side edge portions are provided with no sharp corners. First half side edges (7 and 7') and the adjacent second half side edges (8 and 8', respectively) are inverted mirror images of each other taking the transverse line (10) which separates the two halves (2 and 3) as the plane of reflection. Using the bisecting longitudinal center line (12) as the plane of reflection a first side edge (7 and 8) is a mirror image of the opposing side edge (7' and 8'). The tape provides a maximum peel front at the distal end of the attached **fastening tab** providing a more secure closure and is capable of being cut from a stock roll in a repeating pattern without any waste.

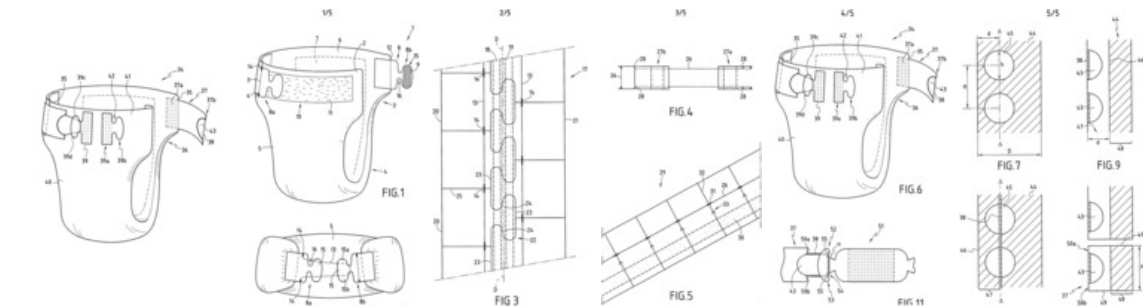
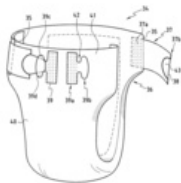


2.	Pressure-sensitive adhesive closure for disposable diaper	IL87983	1987-11-06	3M*	1989-03-31	1989-03-31
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A pressure-sensitive **adhesive** closure for a disposable **diaper** can exhibit high peel resistance both at low and high speeds while its peelability at high speeds is not excessively shocky when it employs a pressure-sensitive **adhesive** of a certain rheology and it has, covering the **fastening** area, a polyolefin layer having microtopographical features as in Figs. 1-6 of the drawing. As seen in Figs. 1-6, suitable microtopographical features are provided by a large number of closely spaced asperities at least two micrometers in height that have a jagged appearance at 500X. A pressure-sensitive **adhesive** of suitable rheology can be provided by a blend of an AB block copolymer, such as a copolymer of styrene and either isoprene or butadiene, and tackifying resin, preferably a mixture of liquid and solid tackifying resins.



A disposable **diaper** has a fastener that can be used again after the used **diaper** has been **folded** onto itself. The fastener has **tab(s)** in one part of the **diaper** co-operating with retainer(s) in another part. An Independent claim is included for the following: (a) Formation of an **adhesive tab** for a **diaper** as above includes applying an elastic strip continuously along a line on one face of an unrolled **adhesive** strip. The strip has circular cut outs whose canters lie along this line. The ribbon is then **folded** along this line. The **tabs** are cut from the strip by making a transverse cuts. Each cut is equidistant between adjacent cutouts. Preferred Features: The **fold** line is not the centerline of the strip. The **diaper** has two **tabs** on opposite sides engaging retainers on the front of the **diaper**. The strip in each **tab** engages a notch of the retainer.



4.

Fastening tab and side panel of disposable **diaper** and disposable **diaper**

WO2006063029

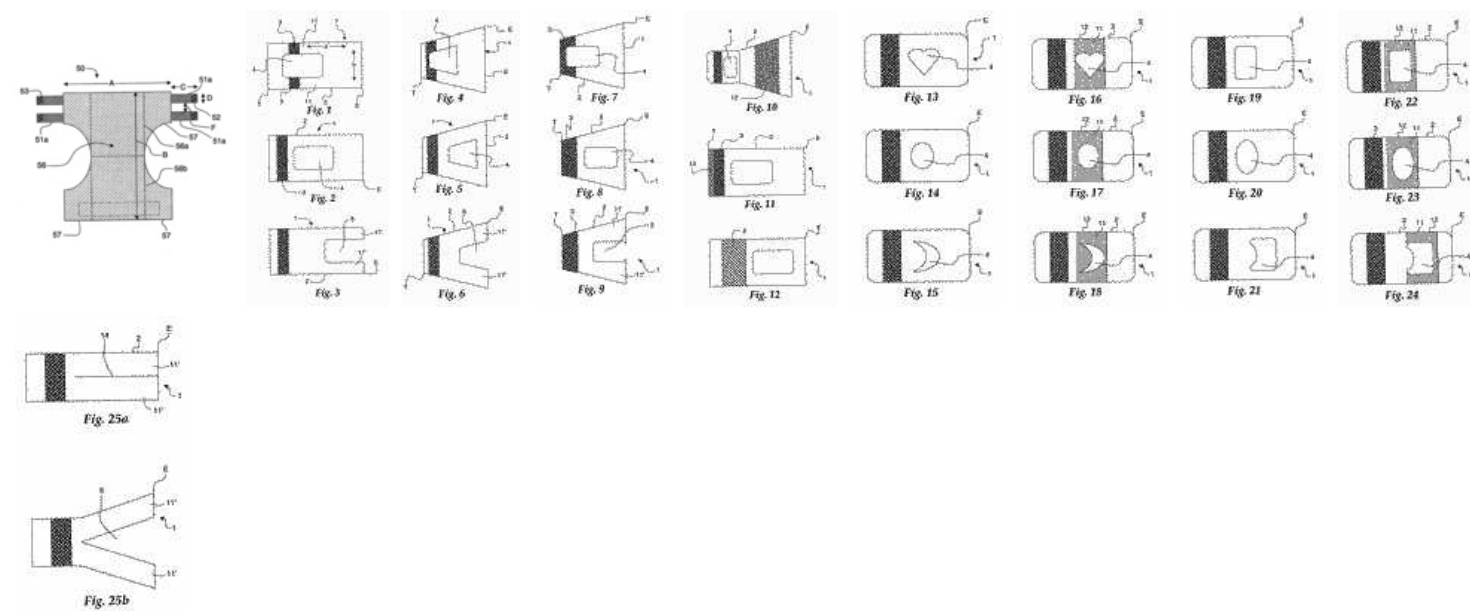
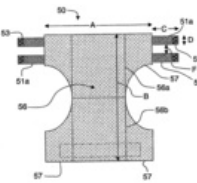
2004-12-07

3M*

2006-06-15

2006-06-15

There is provided a **fastening tab** or side panel for a disposable **diaper** (herein below sometimes referred to simply as a "**fastening tab**") with an opening formed in the **fastening tab** or side panel base member or a notch on the terminal end of the **fastening tab** or side panel base member . When an invention **fastening tab** or side panel of an adult or baby disposable **diaper** (herein below sometimes referred to simply as a "**diaper**") is pulled outward, the **fastening tab** or side panel in some embodiments can be pulled out by hooking the **fastening tab** or side panel at an opening (the "opening" formed by a discrete opening or a notch) with a finger. The opening helps the **fastening tab** to have good handleability on the **diaper** when the **diaper** is fixed to a user. A **fastening tab** having openings or notches, with the side having the notches being attached to the **diaper** such that the notch forms an "opening", also distributes forces at the side of the **diaper**. When the **fastening tab** is pulled the resulting forces are distributed in at least two directions around the sides of the openings or notches. This improves the fit of the **diaper** around the waist and/or around the thighs. The opening(s) also improves the visibility of the location of the fastener attachment and increases comfort of the **fastening tab**.



5.

Disposable sanitary article such as a nappy, with **fastening tabs** having mechanical and **adhesive** properties

FR2773061

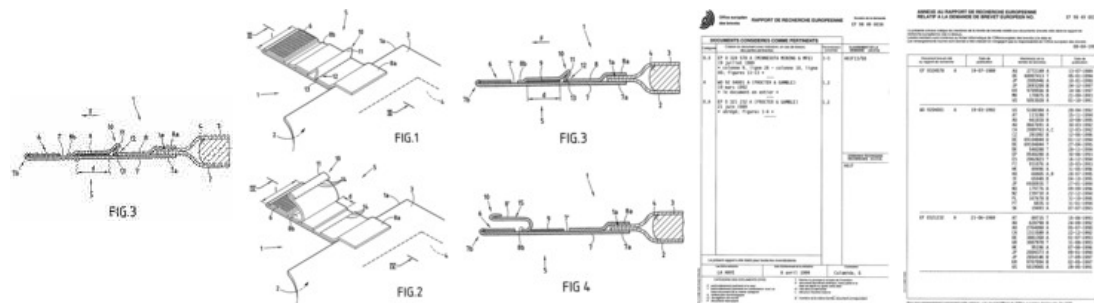
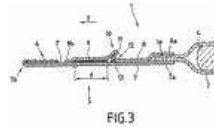
1997-12-30

PROTECO*

1999-07-02

1999-07-02

The hygiene article, particularly disposable nappy, has a **fastening** strip with an **adhesive** zone adjacent to a self-grip zone and covered with a non-**adhesive** layer. The hygiene article, made from an outer impermeable and inner permeable layers (2, 3) over an absorbent pad (4), has side **fastening** strips (5) attached to the outer layer. Each strip has an **adhesive** surface with a self-gripping element (6) on its end which has hooks to engage with a looped element on another area of the article. The remainder of the strip's **adhesive** surface is covered by a second **adhesive** strip (8) which has a **fold** (10), a pre-cut line (13) and a non-**adhesive** inner layer (9) covering a portion of the **adhesive** strip which is exposed to fasten the used article after it has been rolled up for disposal.



6.

Diaper fastening system using welded branching type tabs

WO9612464

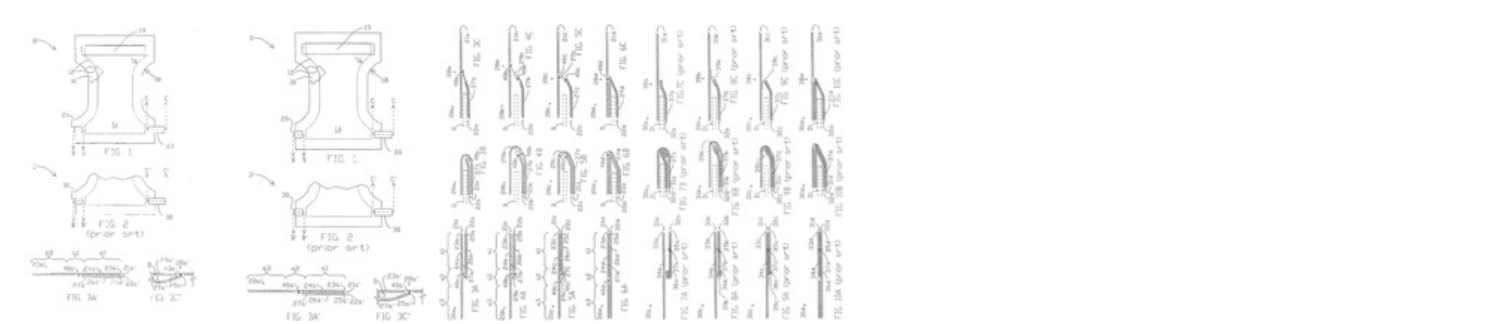
1995-10-18

AVERY DENNISON*

1996-05-02

1996-05-02

A **diaper** is provided with an **adhesive fastening tab** of the Y-configuration type which includes a welded joinder at the branching point between the **fastening** tape and release tape portions of the **tab**, the welded joinder being free of the **diaper**. The welded joinder comprises a direct weld between the substrates of the **fastening** tape and release tape portions of the **tab**, or welds between each of those two substrates and an intermediate junction substrate.



7.

Topcoated adhesive diaper tape and method.

WO9322996

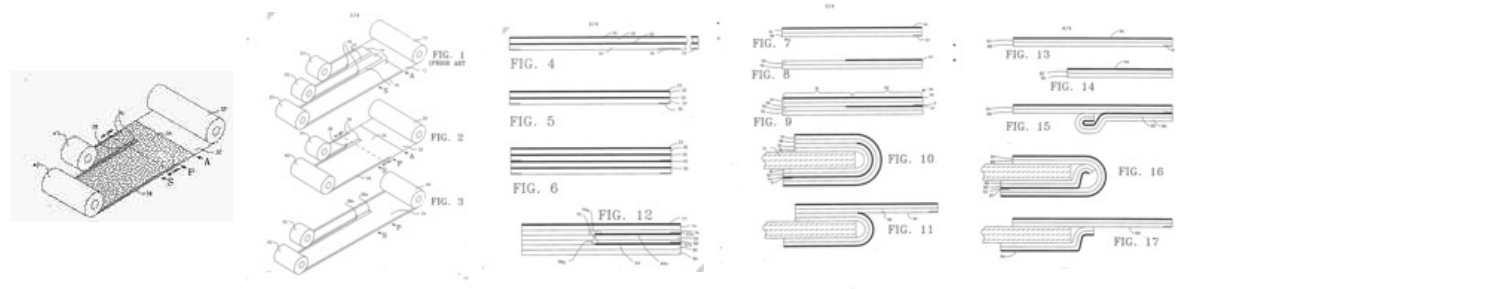
1993-04-14

AVERY DENNISON*
AVERY SENNISON

1993-11-25

1993-11-25

A pressure-sensitive tape substrate (30) is coated with an **adhesive** (34), and the **adhesive** is then printed with an ink or the like (36) that acts as an **adhesive-inhibiting** masking or barrier along one or more continuous zones or lines. Tapes (41, 42) are formed in whole or in part by slitting along the continuous line or lines so defined. The technique is used to make transfer tapes, **diaper** fastener **tabs**, and other products.



8.

Low noise disposable diaper fastening tape

WO9406388

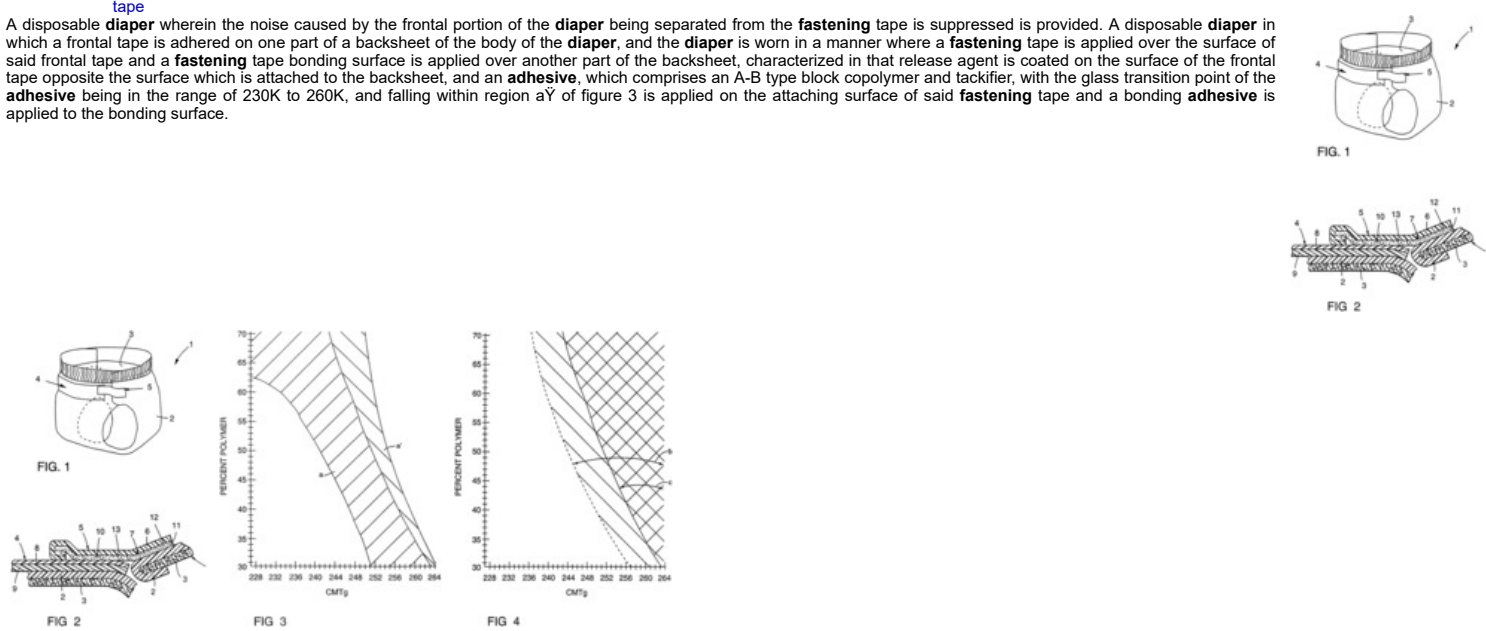
1993-05-28

3M*

1994-03-31

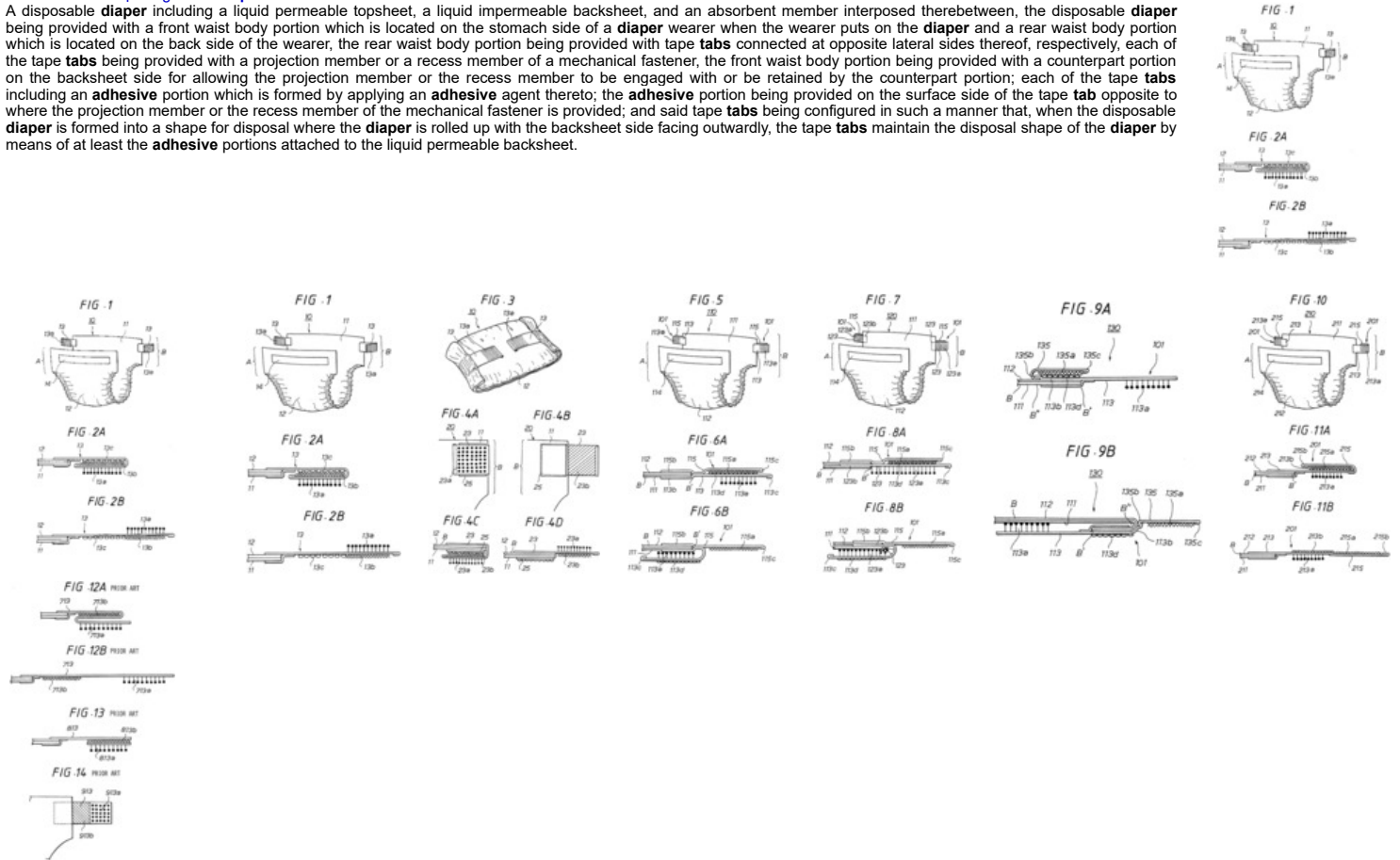
1994-03-31

A disposable **diaper** wherein the noise caused by the frontal portion of the **diaper** being separated from the **fastening** tape is suppressed is provided. A disposable **diaper** in which a frontal tape is adhered on one part of a backsheet of the body of the **diaper**, and the **diaper** is worn in a manner where a **fastening** tape is applied over the surface of said frontal tape and a **fastening** tape bonding surface is applied over another part of the backsheet, characterized in that release agent is coated on the surface of the frontal tape opposite the surface which is attached to the backsheet, and an **adhesive**, which comprises an A-B type block copolymer and tackifier, with the glass transition point of the **adhesive** being in the range of 230K to 260K, and falling within region aY of figure 3 is applied on the attaching surface of said **fastening** tape and a bonding **adhesive** is applied to the bonding surface.

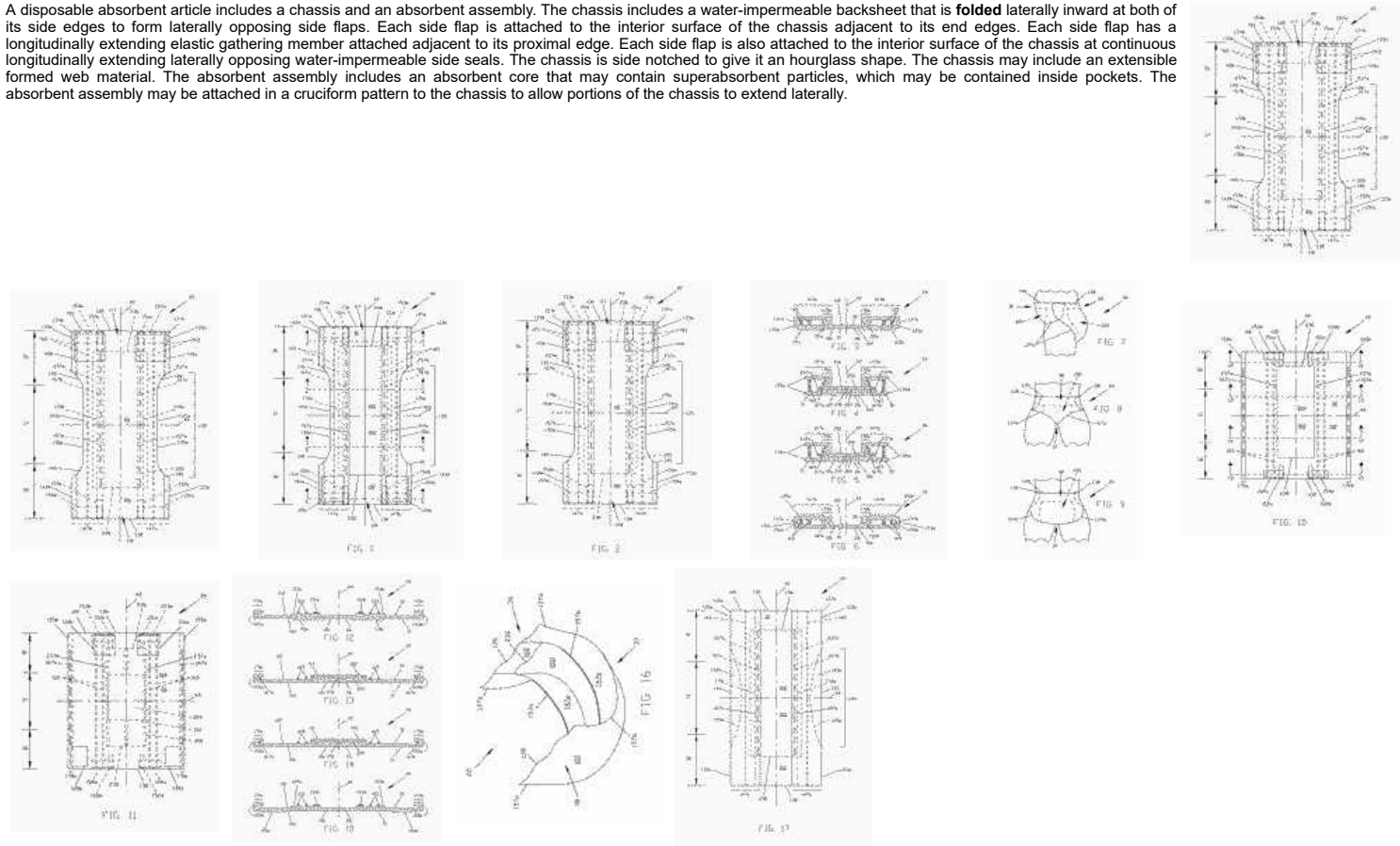




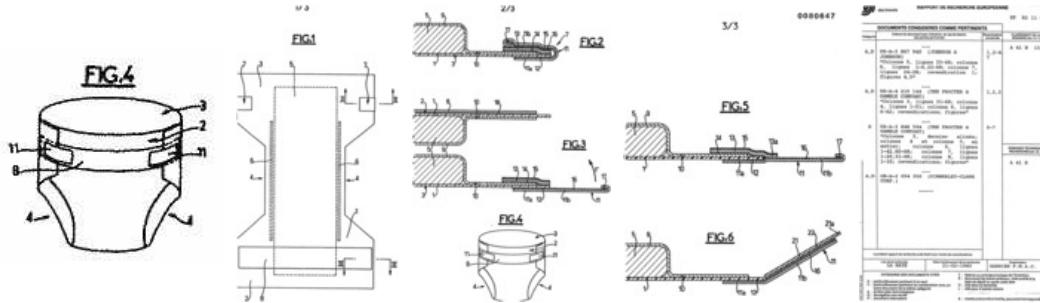
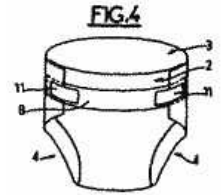
A disposable **diaper** including a liquid permeable topsheet, a liquid impermeable backsheet, and an absorbent member interposed therebetween, the disposable **diaper** being provided with a front waist body portion which is located on the stomach side of a **diaper** wearer when the wearer puts on the **diaper** and a rear waist body portion which is located on the back side of the wearer, the rear waist body portion being provided with tape **tabs** connected at opposite lateral sides thereof, respectively, each of the tape **tabs** being provided with a projection member or a recess member of a mechanical fastener, the front waist body portion being provided with a counterpart portion on the backsheet side for allowing the projection member or the recess member to be engaged with or be retained by the counterpart portion; each of the tape **tabs** including an **adhesive** portion which is formed by applying an **adhesive** agent thereto; the **adhesive** portion being provided on the surface side of the tape **tab** opposite to where the projection member or the recess member of the mechanical fastener is provided; and said tape **tabs** being configured in such a manner that, when the disposable **diaper** is formed into a shape for disposal where the **diaper** is rolled up with the backsheet side facing outwardly, the tape **tabs** maintain the disposal shape of the **diaper** by means of at least the **adhesive** portions attached to the liquid permeable backsheet.



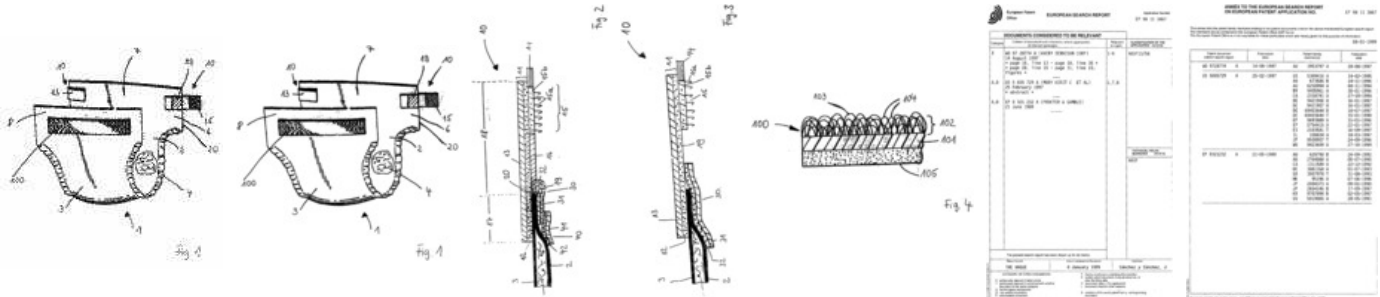
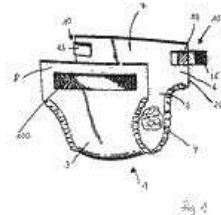
A disposable absorbent article includes a chassis and an absorbent assembly. The chassis includes a water-impermeable backsheet that is **folded** laterally inward at both of its side edges to form laterally opposing side flaps. Each side flap is attached to the interior surface of the chassis adjacent to its end edges. Each side flap has a longitudinally extending elastic gathering member attached adjacent to its proximal edge. Each side flap is also attached to the interior surface of the chassis at continuous longitudinally extending laterally opposing water-impermeable side seals. The chassis is side notched to give it an hourglass shape. The chassis may include an extensible formed web material. The absorbent assembly includes an absorbent core that may contain superabsorbent particles, which may be contained inside pockets. The absorbent assembly may be attached in a cruciform pattern to the chassis to allow portions of the chassis to extend laterally.



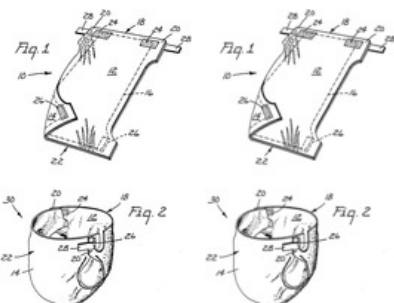
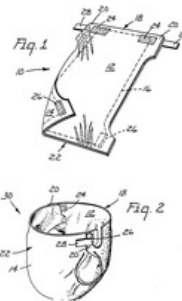
1. Disposal diapers comprising an outer sheet made of an impervious plastic material (1) incorporating a front part (2) and a back part (3), an absorbent pad (5) arranged on the inner face of the impervious sheet (1), a permeable inner protective sheet (9) secured by gluing to parts of the inner face of the impervious sheet (1) and firmly enclosing the absorbent pad (5) and two **adhesive** fastener means (7) which are secured by gluing to at least the outer face of the impervious sheet (1) to the edges of its back part (3), each **fastening** means incorporating a **fastening tab** (11), a portion of which (11b), provided with a layer of a pressure-sensitive **adhesive** (16), may be glued to the outer face of the impervious sheet (1) in its front part (2) in order to close the **diaper**, the front part (2) of the impervious sheet (1) having one or more strengthened areas so as to allow the repeated gluing and ungluing of the **adhesive** portions (11b) of the abovementioned **tabs**, characterised in that the outer surface of the impervious sheet is treated so as to have a matt appearance, the strengthened area comprising a smooth surface portion on the outer face, so as to improve the tensile strength of the **tab** (11) glued to the strengthened area when pulled in its plane while promoting the ungluing by pulling in a direction forming an angle with its plane.



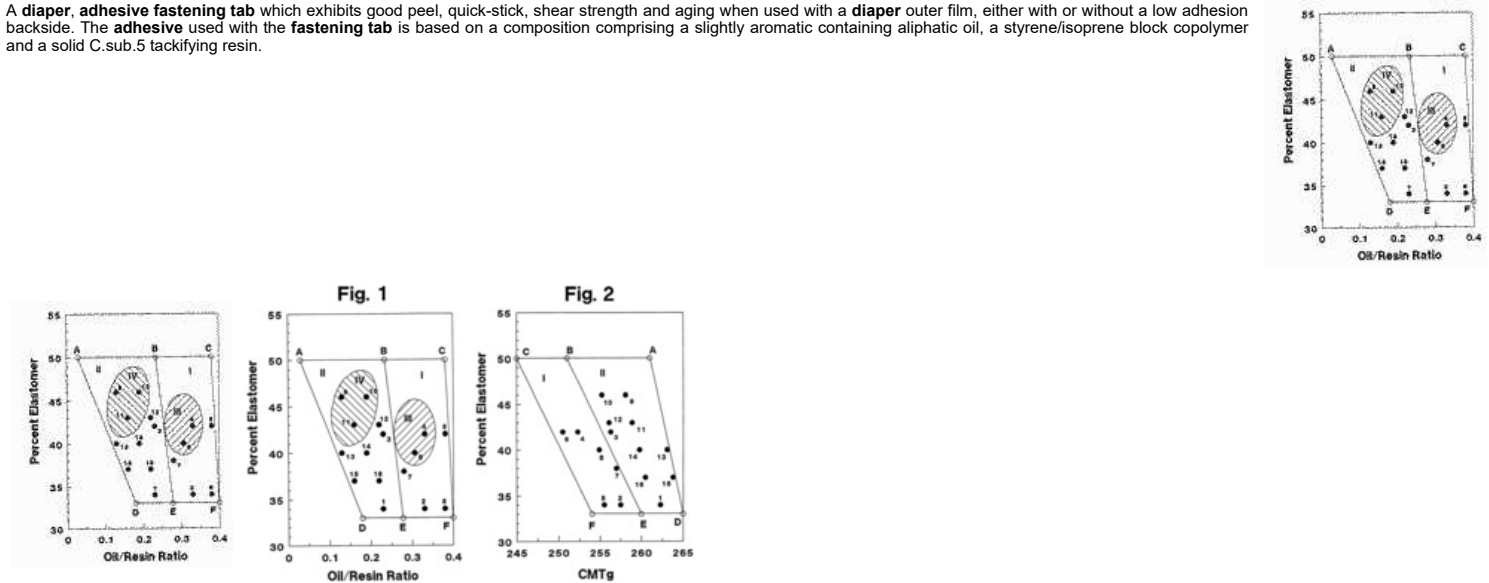
The present invention refers to a closure system A closure system comprising a mechanical closure tape **tab** laminate (10) or a precursor of such tape **tab** laminate, and a female **fastening** element (100) or a precursor of such female **fastening** material, for an absorbent article, particularly for a disposable **diaper** (1), the mechanical closure tape **tab** laminate (10) comprising a **fastening tab** (11) having a backing (13) bearing an optionally continuous **adhesive** layer (12), the mechanical closure tape **tab** laminate (10) being attachable to the outside surface (3) of a first end region 7 of the **diaper** (1) or between the outside surface (3) and the inside surface (2) of the edge portion 6 of said first end region 7 of the **diaper** (1) through its proximal end (17) which is adjacent to its free end (18), the free end (18) of the mechanical closure tape **tab** laminate (10) further comprising a male mechanical **fastening** element (15), the mechanical closure tape **tab** laminate (10) optionally further comprising a secondary tape **tab** (30) having a backing (31) bearing an optionally continuous **adhesive** layer (32), the secondary tape **tab** (30) if present being attached to the free end (18) of the mechanical closure tape **tab** laminate (10) by means of the **adhesive** layer (32), by means of the **adhesive** layer (12) and/or by means of one or more tertiary tape **tabs** (40) having a backing (41) and an optionally continuous **adhesive** layer (42), the secondary tape **tab** (30) being attachable to the inside surface (2) of the **diaper** (1) by means of the **adhesive** layer (22) and/or by means of one or more tertiary tape **tabs** (40), the mechanical closure tape **tab** laminate (10) having at least one exposed **adhesive** **fastening** surface (19) on the free end (18) of the **fastening** tape (11), on the secondary tape **tab** (30) and/or on one or more of the tertiary tape **tabs** (40) if present, the female **fastening** element (100) comprising a backing (101) bearing on a first major surface a fibrous web structure (102) having a release-treated exposed surface (103), the fibrous web structure (102) being capable of engaging the male **fastening** element (15) of the mechanical closure tape **tab** laminate (10), the female **fastening** element being attachable to the outside surface (3) of a second end region (8) of the **diaper** (1) opposite to said first end region (7) through a second major surface of the backing (101) to form a landing zone for the male **fastening** element (15) of the mechanical closure tape **tab** laminate (10), the release-treatment of the exposed surface (103) of the fibrous web structure (102) being selected so that the 90 DEG peel adhesion of the exposed **adhesive** **fastening** surface (19) from the exposed surface (103) of the female **fastening** element (100) as measured according to the modified FINAT test method no 2 described in the test section, is less than 1.2 N/25 mm. <IMAGE>



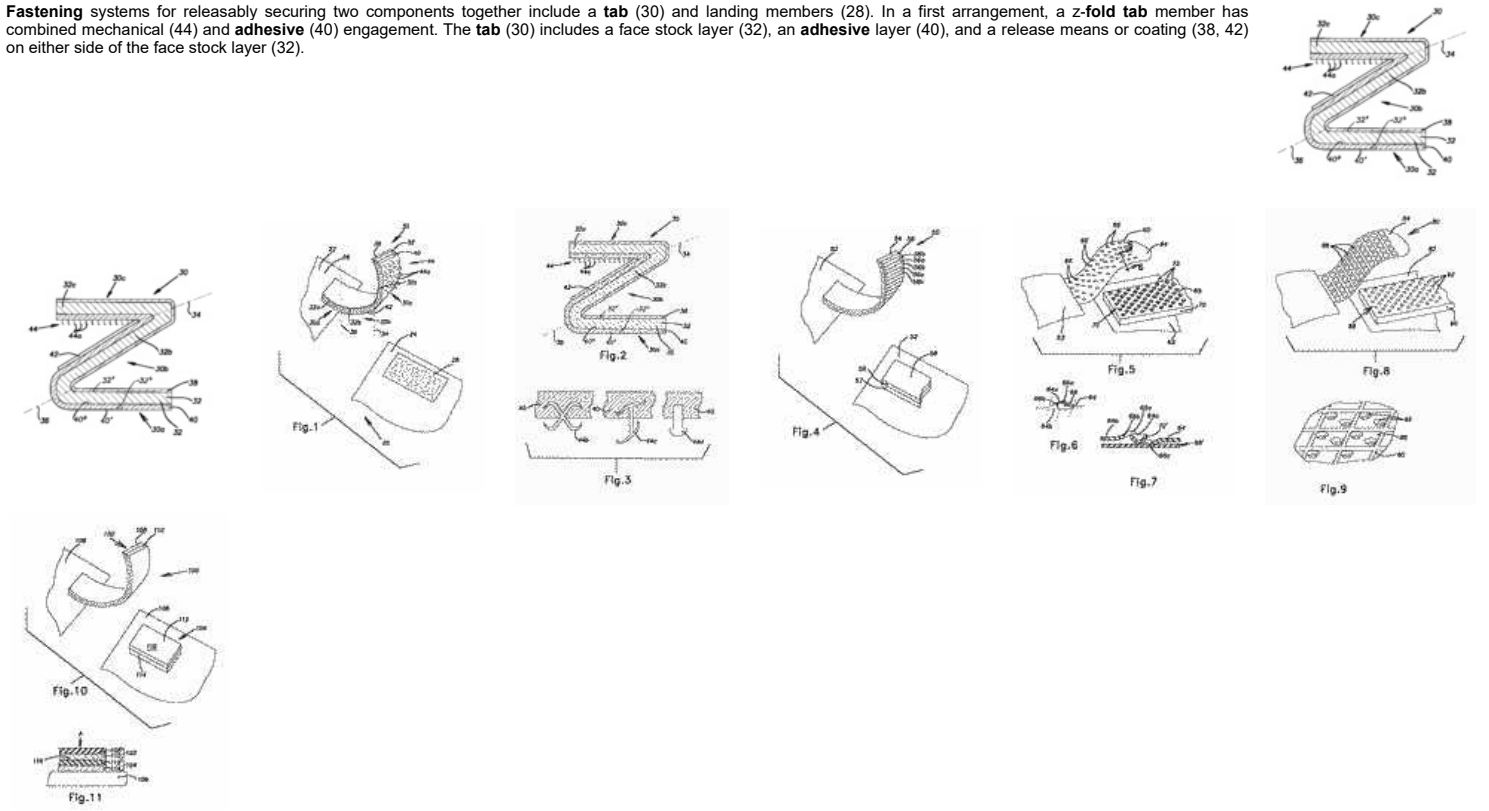
A disposable **diaper** can be fastened securely around a person and be refastenable when it has an **adhesive** patch (24) on the faces of corners at the back (18) of the **diaper**, each of which patches contacts an **adhesive** patch (26) on the front (22) of the **diaper**, which patches form bonds to each other that have strong resistance to shear forces, can easily be peeled apart after 2 hours at room temperature and do not adhere either to ordinary packaging materials or to nonadhesive surfaces of the **diaper**. All of the **adhesive** patches can be cut from a single **adhesive** tape that has a flexible backing, one face of which bears a layer of the peelable **adhesive** while the other layer bears a layer of an **adhesive** that forms a strong, permanent bond to the **diaper**. <IMAGE>



A **diaper**, **adhesive fastening tab** which exhibits good peel, quick-stick, shear strength and aging when used with a **diaper** outer film, either with or without a low adhesion backside. The **adhesive** used with the **fastening tab** is based on a composition comprising a slightly aromatic containing aliphatic oil, a styrene/isoprene block copolymer and a solid C.sub.5 tackifying resin.



Fastening systems for releasably securing two components together include a **tab** (30) and landing members (28). In a first arrangement, a z-fold **tab** member has combined mechanical (44) and **adhesive** (40) engagement. The **tab** (30) includes a face stock layer (32), an **adhesive** layer (40), and a release means or coating (38, 42) on either side of the face stock layer (32).



18.

Disposable **diaper** with **adhesive** tape **tab** fasteners

CA1038553

1974-03-08

KENDALL*

1978-09-19

1978-09-19

DISPOSABLE **DIAPER** WITH **ADHESIVE** TAPE **TAB** FASTENERS A disposable **diaper** comprising, **diaper** defined by peripheral edges and have an inside surface for direction toward the body of an infant when the **diaper** is worn by that infant and at least one tape fastener affixed to the **diaper** along a peripheral edge thereof. The tape fastener comprises a strip of tape having pressure sensitive **adhesive** material on a side thereof, a first portion of said strip of tape being **adhesively** secured to an outside surface of the **diaper** along said peripheral edge and a second portion of the strip extending back inwardly from said edge to overlie the inside surface of the **diaper**, with the second portion of the strip having pressure sensitive **adhesive** material on the side thereof facing said inside surface. A release sheet is secured to the inside surface of the **diaper**, and is overlaid by said second portion of the strip which is releasable from said **adhesive** material. The second portion of the strip is releasably **adhesively** attached by said **adhesive** material to said release sheet and is removable therefrom by peeling said second portion from the release sheet, with said first portion retaining the strip to the **diaper** after removal of the second portion.

Figures 1-4 of Kendall's patent show various views of a disposable diaper with adhesive tape tab fasteners. Figure 1 is a perspective view of a diaper with a fastener strip. Figure 2 is a top plan view of the fastener strip. Figure 3 is a side cross-sectional view of the fastener strip. Figure 4 is a perspective view of the fastener strip being peeled from a release sheet.

Figures 5-8 of Kendall's patent show various views of a disposable diaper with adhesive tape tab fasteners. Figure 5 is a perspective view of a diaper with a fastener strip. Figure 6 is a top plan view of the fastener strip. Figure 7 is a side cross-sectional view of the fastener strip. Figure 8 is a perspective view of the fastener strip being peeled from a release sheet.

19.

Stretchable mechanical/**adhesive** closure

WO9725892

1997-01-16

AVERY DENNISON*

1997-07-24

1997-07-24

This invention is a **fastening** system for securing a **diaper** having both mechanical and an **adhesive** or cohesive securement. **Tab** members (10) comprise a face stock layer (14), a contact layer (16) of **adhesive** or cohesive overlying at least a portion of the face stock layer (14), and mechanical **fastening** elements (18) projecting from at least a portion of the contact layer (16). The face stock layer includes extensible (14a) and substantially nonextensible polymeric portions (14b). A landing member (20) includes complementary mechanical **fastening** elements (20a).

Figure 1 of Avery Dennison's patent shows a perspective view of a diaper with a fastening system. A tab member (10) is shown being attached to a landing member (20). The tab member includes a face stock layer (14), a contact layer (16), and mechanical fastening elements (18). The landing member includes complementary mechanical fastening elements (20a).

Figures 2-4 of Avery Dennison's patent show various views of a fastening system. Figure 2 is a perspective view of a fastening system. Figure 3 is a top plan view of a fastening system. Figure 4 is a side cross-sectional view of a fastening system.

8/25

20.

Disposable **diaper** having a **fastening** tape with stepwise adjustable length

WO2010106926

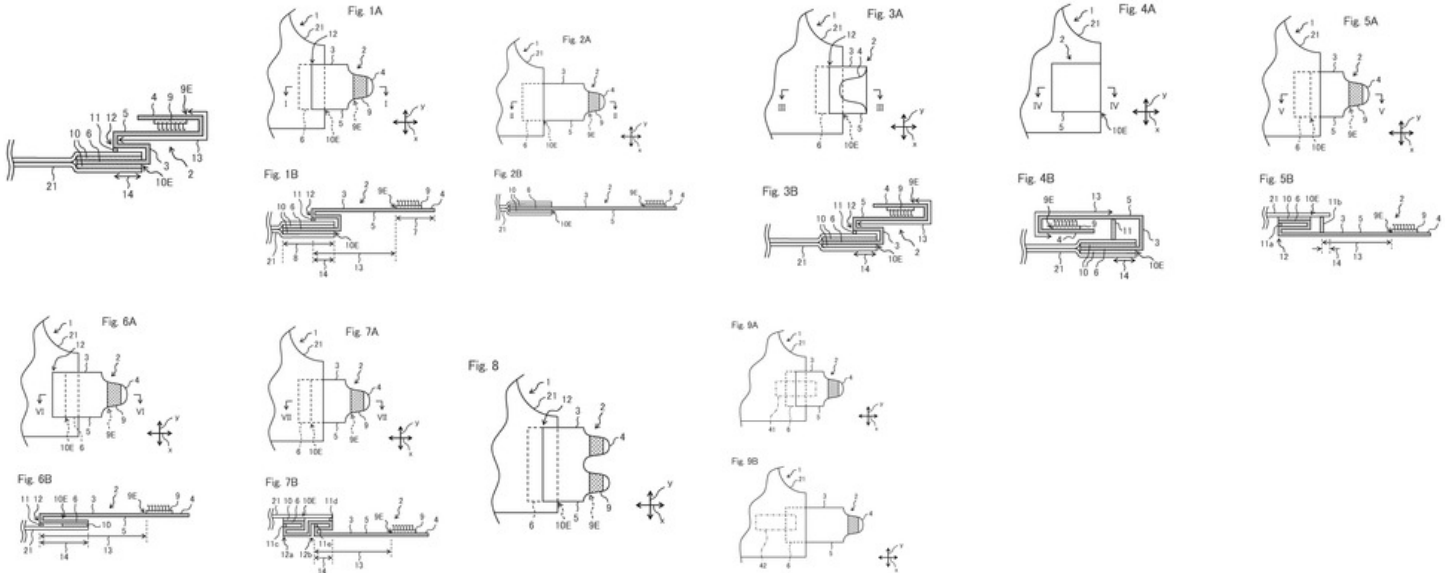
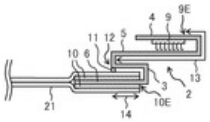
2009-03-17

LIFE ESTATE
LIVEDO*

2010-09-23

2010-09-23

A disposable **diaper** comprising a **fastening** tape, to having a **tab** part at one end of a tape substrate, a fixing part at the other end of the tape substrate, and an adjustment part between the **tab** part and the fixing part; an attachment is fixed to the **tab** part, the **fastening** tape is attached to a side end of the front or back part of the **diaper** main body at the fixing part, the adjustment part is **folded** and temporarily joined to the **diaper** main body and/or to the **fastening** tape at a joining part, and a length of the **fastening** tape between the attachment and the joining part nearest to the attachment is longer than a length between an outer edge of the **diaper** main body and the joining part nearest to the attachment. The length of the **fastening** tape is thus stepwise adjustable to a size of a wearer's waist, and hence the disposable **diaper** of one size can be worn by people of various body types.



21.

Disposable **diaper** having **tab fastening** means with one end thereof releasably adhered to **diaper**

US3970086

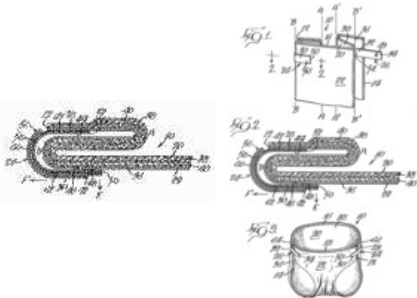
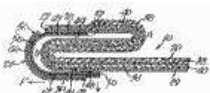
1975-05-07

JOHNSON & JOHNSON*

1976-07-20

1976-07-20

A disposable **diaper** is provided with **adhesive tabs**, each having an **adhesive** surface on one face, and further having a fixed end permanently adhered to a backing sheet of the **diaper** at a marginal location, and a working end. A cover strip means is releasably adhered to the **adhesive** surface on the working end of each **tab**. Between the face opposite the **adhesive** surface on the working end of each **tab** and the backing sheet is positioned an **adhesive** spot so that the working end is releasably adhered to an intermediate portion of the backing sheet when the **diaper** is prefolded in a box pleat configuration and when the working end is **folded** over during manufacture or packaging.



22.

Structured **adhesive** closure systems

WO9511655

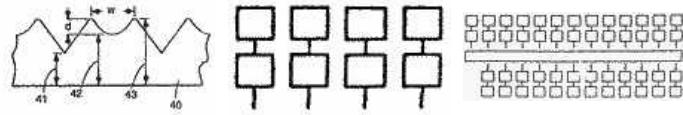
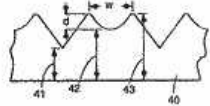
1994-09-26

3M*

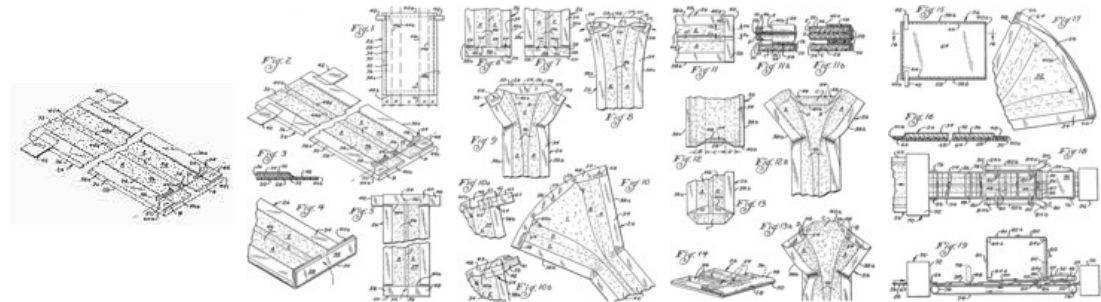
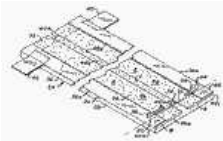
1995-05-04

1995-05-04

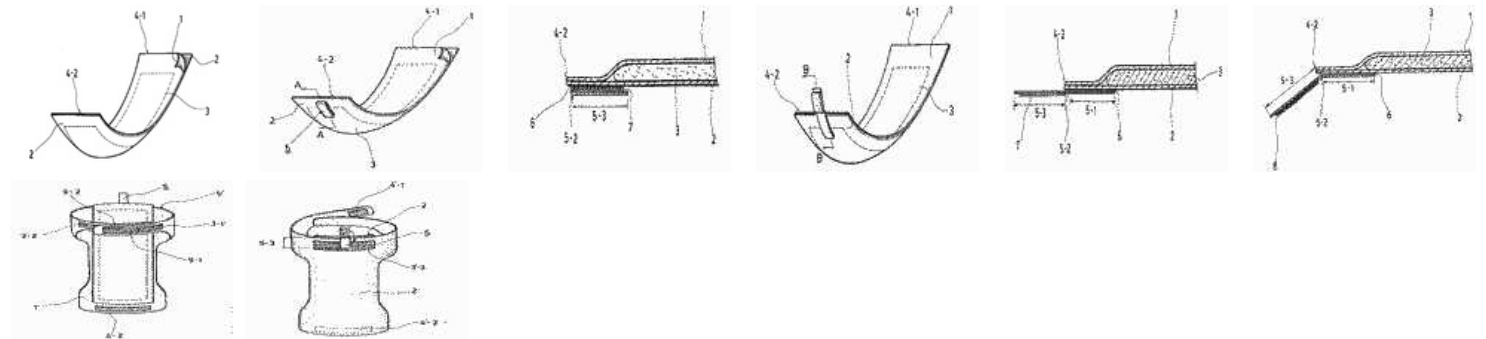
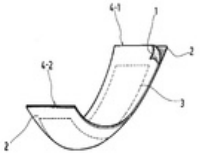
A tape closure system for attaching two opposing substrates. The tape closure system comprises a pressure-sensitive **adhesive** tape **tab** having one end permanently attached to one substrate and a second free end releasably attached to the second opposing substrate. The free end is provided with a textured **adhesive** to improve releasable adhesion performance.



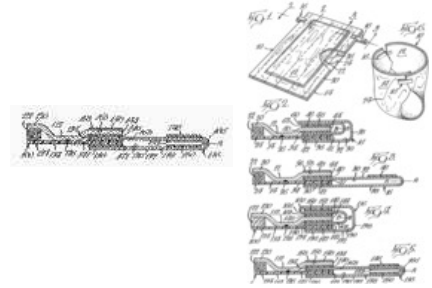
23.	Disposable diaper with end flap means and method	BE829346	1974-05-23	COLGATE PALMOLIVE*	1975-09-15	1975-09-15
A disposable diaper having an absorbent pad, a fluid impervious backing sheet defining a back surface of the diaper, a front surface, and a plurality of longitudinally extending folds defining a box-pleat configuration of the diaper. An end flap of the box-pleat diaper is folded over the front surface of the diaper, and means is provided for retaining a least a portion of the front surface of the flap against the underlying front surface of the box-pleat diaper.						



24.	The one-time insertion style diaper which has an adhesive tape tap contracting means	KR19980075115	1997-03-28	LG CHEM*	1998-11-05	1998-11-05
The present invention relates to a disposable diaper in an insertion type to secure the diaper carbazol adhesive tape tab fastening means is used as a product liquid permeable liquid impermeable backsheet and an absorbent body between the top and the backsheet of the disposable diaper in which an insertion type, the folded back end of the line portion of the waist inner part of the tab and backsheet attached, the inner part that extends from the first and the tab outer side tabs which is stretched by the outer portions can be unfolded fold when the tabs of the rear end of the line over the waist diaper kava kava is capable of being secured to the diaper of the present invention.						

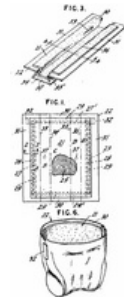
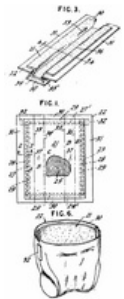


25.	Diaper with loop-type adhesive fastener releasably secured to diaper facing	US3989048	1975-09-29	JOHNSON & JOHNSON*	1976-11-02	1976-11-02
A disposable diaper having a facing sheet defining a diaper inside surface for direction toward an infant and a backing sheet defining a diaper outside surface is provided with adhesive tabs comprising an elongated tape segment folded over to form a loop having an inner face and an outer face, the tabs including first and second terminal portions and a central portion integral with the terminal portions. The tape segment receives a marginal portion of the diaper backing sheet between the terminal portions and is permanently attached to the facing and backing sheets by means of adhesive coatings on both faces of the first terminal portion and the inner face of the second terminal portion. An adhesive coating is provided on the outer face of the central portion of the tape segment, is releasably attached to a release region provided on the diaper inside surface, and the central portion of the tab is movable from a folded-over storage position wherein the adhesive-coated central portion is releasably adhered to the release region to a working position wherein the adhesive-coated central portion is available for use in securing the diaper about an infant. Secondary fastening means may be provided for refastening the diaper about the infant by positioning a second adhesive coating and second release means on the inside surface of the central portion. Lines of weakening may be provided in a tab having secondary fastening means to facilitate repositioning of the diaper about the infant.						



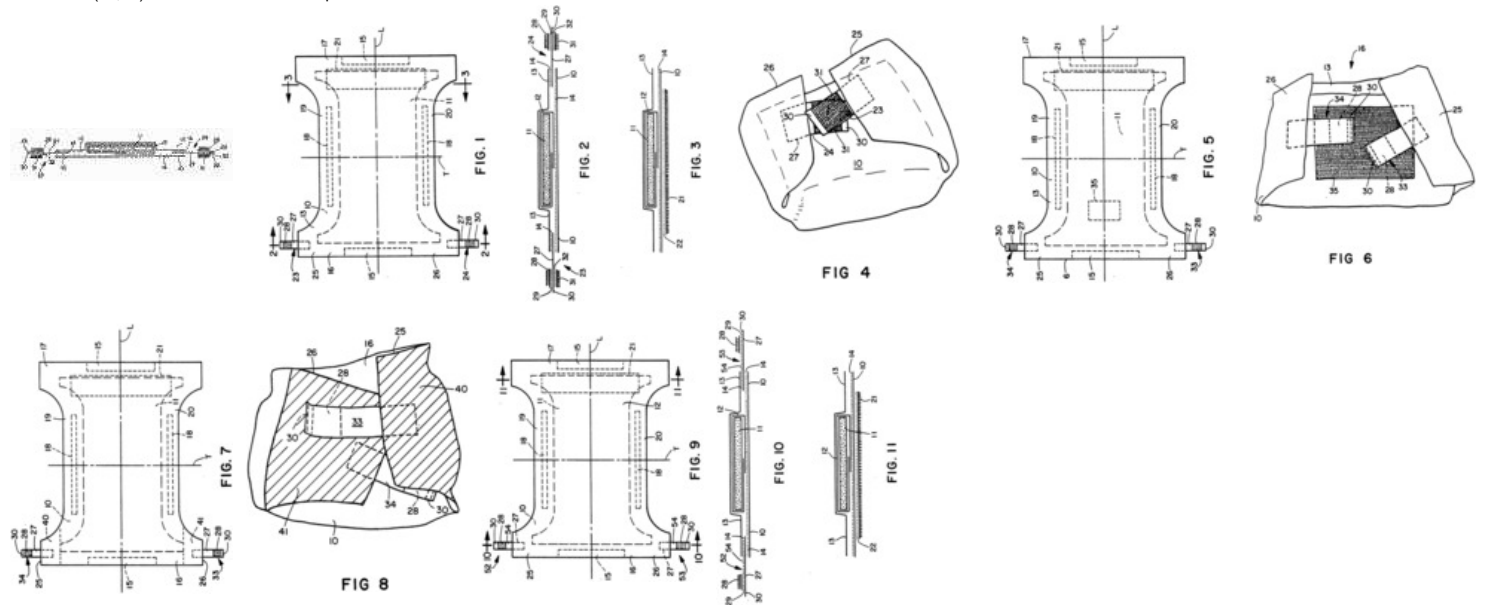
1,011,888. Disposable diapers. PROCTER & GAMBLE CO. July 13, 1962 [July 17, 1961], No. 27037/62. Heading A3V. A disposable **diaper** comprises a flexible back sheet of waterproof material and a pad of absorbent material attached to one surface, the pad and back sheet being formed into a box pleated configuration in at least the crotch region by means of a plurality of longitudinal **folds**. The absorbent pad 21, Fig. 1, comprises a multiplicity of plies of creped cellulose wadding 25 enclosed on one side and all four edges by a porous hydrophobic non-woven fabric (examples given) top or inner sheet preferably attached to the wadding by a slowly- or non-soluble **adhesive** and to the overlapping portions of itself along areas 27, 27<SP>1</SP>, 28, 28<SP>1</SP>, which are turned under the wadding and border the bottom face thereof. The pad 21 is centrally **adhesively** attached to the larger flexible waterproof back sheet 22 (e.g. of polythene) along areas 23, 24 leaving marginal area 30, 31 of waterproof material the bond being strong in sheer but easily severable by peeling the pad from the back sheet. The pad and back sheet are **folded** along longitudinal **fold** lines 33, 34, 35, 36, to form the box pleated configuration shown in Fig. 3, the **folds** being secured by spots of **adhesive** 37. In applying the **diaper** to an infant the ends are fanned out (Fig. 5 not shown) passed between the legs, the sides being secured by safety pins or a strip of pressure sensitive tape 32, Fig. 6, located on the underside of the back sheet one in each side flap 31. Several alternative methods of **folding** the **diaper** are described and a further embodiment in which the **diaper** has a reinforcing insert of absorbent material in the crotch region. The **adhesive** used may be plasticized polyethylene.

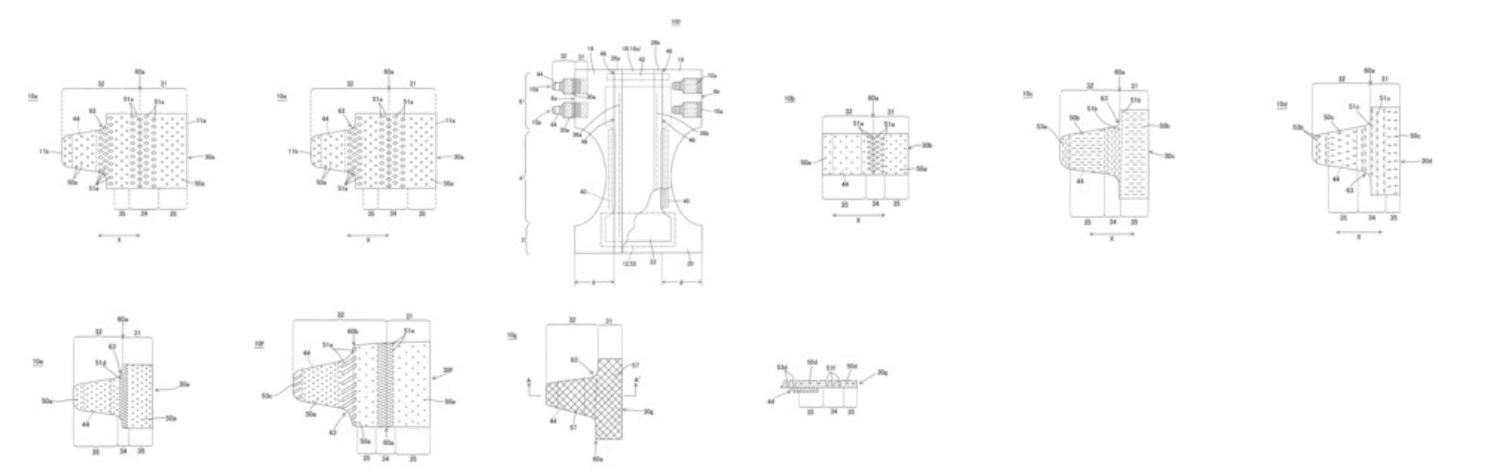
(From GB1011888 A)



27. **Fastening system for disposable diaper with disposability feature** CA2005230 1989-12-12 **KIMBERLY CLARK***
KIMBERLY CLARK WORLDWIDE 1990-06-20 1990-06-20

An absorbent article is described which comprises superposed backsheet (10), absorbent body (12) and topsheet (13) elements formed to a composite. The opposite longitudinal ends of the composite provide front and rear waistband portions (16,17) adapted to overlap each other upon encircling abdomen of the user. A primary **fastening** means (21,64) on the front and rear waistbands (16,17) is provided respectively, for releasably **fastening** the front and rear waistband portions (16,17) to each other in the encircling relationship. A separate secondary **fastening** means (62,63,66,67) is provided on the composite for **fastening** the article in a rolled or **folded** condition for disposal after use. The secondary **fastening** comprises **tabs** (62,63) projecting outwardly on the ends of the rear waistband (16). In order to provide a disposable article which is easy in design and easy in use, and which is able to securely seal a soiled absorbent article after use in a rolled or **folded** condition for disposal, it is proposed, the secondary **fastening** means further to comprise transverse slits (66,67) across a portion of each of the **tabs** (62,63). The slits (66,67) extend opposite each other in the respective **tabs** (62,63) whereby interengagement of the **tabs** (62,63) with each other at their slits (66,67) fastens the article for disposal. <IMAGE>

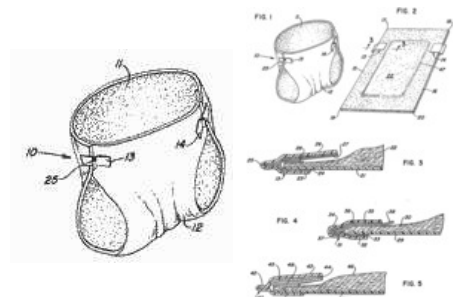
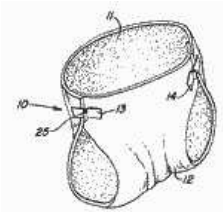


28.	Adhesive tape and tape type disposal diaper	JP2012192244	2012-07-11	OJI NEPIA* OJI PAPER*	2012-10-11	2012-10-11
PROBLEM TO BE SOLVED: To provide an adhesive tape which is hard to break when or while wearing.SOLUTION: The adhesive tape 10a for fixing a front body and rear body of a diaper includes a sheet of a substrate 30a made of nonwoven cloth and a hook member 44 which is a mechanical fastener and set on the surface of the substrate 30a, and the substrate 30a has a fixed area 31 on its one end 11a to be fixed to the diaper and a non fixed area 32 other than the fixed area 31 on the other end 11b. A reinforcing concave portion 51a is formed by pressure in a boundary section 34 including a boundary line 60a between the fixed area 31 and non fixed area 32, and thanks to the reinforcing concave portion 51a formed in the boundary section 34 including the boundary line 60a, the tensile strength in the width direction X of the diaper in the boundary section 34 is set comparatively greater than the tensile strength in the width direction X of the diaper in the contiguous area 35 around the boundary area 34.						
						

29.	Adhesive tape fasteners	EP0131386	1983-06-13	ANCHOR CONTINENTAL* INTERNATIONAL CONTAINER SYSTEMS IPG TECHNOLOGIES	1985-01-16	1985-01-16
An adhesive tape fastener for a diaper which diaper has a front surface which is adapted to face an infant and a back surface which is opposite the front surface characterised in that the adhesive tape fastener comprises a first adhesive tape, a second adhesive tape and a third adhesive tape each of which has a back face and a front face which is coated with pressure sensitive adhesive; which first adhesive tape has a free end, a fixed end, and a portion between the free end and the fixed end which is adapted for attachment to a marginal portion of the front surface of the diaper to form a first anchor tab, which fixed end is joined to the adhesive face of a second adhesive tape to form a first join; which second adhesive tape has a free end, a fixed end and a portion between the first join and free end which adapted to form a first fastener tab for fastening the diaper, which fixed end is joined to the adhesive face of a third adhesive tape to form a second join; which third adhesive tape has a first free end, a second free end, a first portion between the first free end and the second join which is adapted to form a second fastening tab for fastening the diaper and a second portion between the second free end and the second join which is adapted for attachment to a marginal portion of the back surface of a diaper to form a second anchor tab; which first fastening tab adhesive face is attached to the back face of the first adhesive tape portion which has a release surface to allow the first fastening tab to be removed therefrom to fasten the diaper; which second fastener tab adhesive face is attached to the back face of the first fastening tab which has a release surface to allow the second fastening tab to be removed therefrom to fasten the diaper, which second fastening tab is finger tearable whereby after use it can be detached from the fastener to allow the first fastening tab to be used to refasten the diaper.						
						

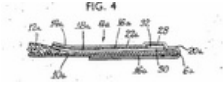
30.	Fastening tab means for a disposable diaper	US3920016	1974-09-03	JOHNSON & JOHNSON*	1975-11-18	1975-11-18
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A disposable **diaper** having a moisture-impermeable backing sheet and an absorbent pad suspended on the backing sheet is provided with a **fastening tab** means attached at one end to the backing sheet near one edge of the **diaper**. A terminal free portion of the **fastening tab** means extends inwardly from the **diaper** edge and lies substantially flat against the inside surface of the **diaper**, and an intermediate portion of the **fastening tab** means is doubled over on itself to form a relatively small section having two **tab** thicknesses outside the perimeter limits of the **diaper**.



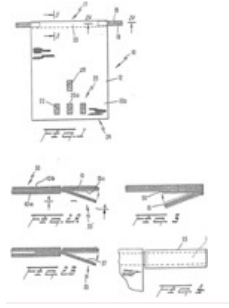
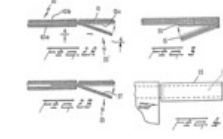
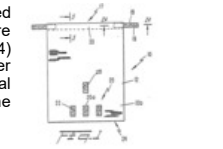
31.	Disposable diaper with adhesive tape-tab fasteners	GB1446208	1973-08-15	COLGATE PALMOLIVE*	1976-08-18	1976-08-18
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1446208 **Diaper** COLGATE PALMOLIVE CO 15 Aug 1973 38631/73 Heading A3V A **diaper** has at least one pressure-sensitive tape **folded** over, around, or close to, the **diaper** edge so that one portion overlies the inside of the **diaper**, part of that portion extending from the **fold**, being attached to the material below it. A release sheet is provided below the remainder of the portion. In the embodiment shown the tape is **folded** over the edge 6a of the **diaper** and secured to the outside surface. It is also secured at 20a adjacent the edge on the inside surface. A sheet of material 18a is attached to the **tab** and is easily releasable to expose the **adhesive**. Release may be assisted by an additional strip 32, **folding** the inside edge of the sheet, or projecting its free end beyond the end of the **tab**. Alternatively the sheet may be firmly attached to the **diaper**. In a further embodiment (Fig. 9, not shown) the tape may be **folded** back on itself and secured to the inside of the **diaper**.



32.	Adjustable diaper with a backband and fastening protection means	WO8303754	1983-05-03	COATES FREDERICA VAUGHAN; COATES FREDERICA V; COATES FREDERICA VAUGHAN	1983-11-10	1983-11-10
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A **diaper** (10) comprises a conventional, rectangular washable **diaper** form (12) with opposite inner and outer surfaces (10a, 10b). A pair of attachment **tabs** (15) each secured to an upper corner of the fabric (12) engage **fastening** strips (20) secured to the outer surface of the fabric adjacent a lower edge thereof. The **fastening** strips (20) are elongated and are vertically oriented for adjustable, mating engagement with the attachment **tabs** (15) to accommodate growth of the infant. The lower edge portion (24) carrying the **fastening** strips (20) can be **folded** onto the inner surface (10a) to expose a second elongated **fastening** strip (25) attachable to **tabs** (15) to provide a smaller **diaper** for newborn infants. The backband (30) reinforces the area of attachment of **tabs** (15) to the **diaper** form (12). Protective strip portions (50) are provided in several embodiments to cover the hook-bearing attachment surfaces (15a, 19) of the **tabs** to prevent lint accumulation during washing. A templet (60) is disclosed enabling the conventional **diaper** (12) to be modified to the **diaper** (10) of the invention.



33.

Diaper tab assembly with z-fold and multiple fastening components

WO2018133026

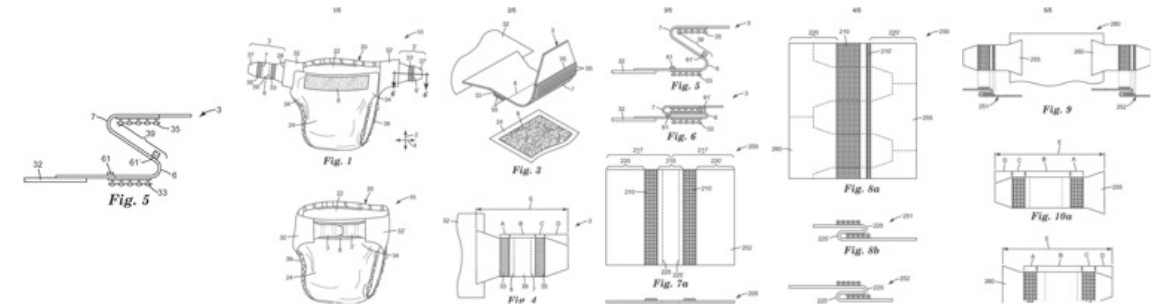
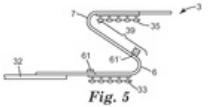
2017-01-20

3M*

2018-07-26

2018-07-26

An absorbent article (10) having an inner surface, an outer surface, a first waist region (32), a second waist region (34), a crotch region extending longitudinally between and connecting the first waist region (32) and the second waist region (34). Fastener **tab** (3) for an absorbent article (10) includes two hook-type strips of material, separated by an expansion area (39). The expansion area (39) has two **folds** (6, 7), creating a "Z-fold" type configuration. A strip of non-woven material which, when S-cut, may be used for the **fastening tab** region of an absorbent article (10).



34.

Method for manufacturing tape tab fasteners

US5578152

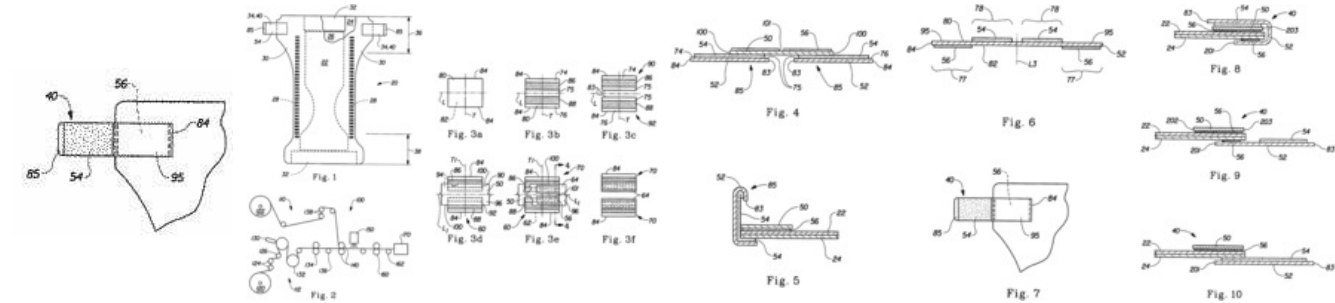
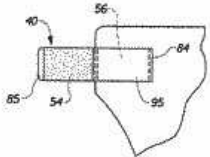
1995-05-24

PROCTER & GAMBLE*

1996-11-26

1996-11-26

A method for the manufacture of tape **tab** stock that may be used to produce tape **tabs** for use with disposable absorbent articles, as well as a method for the on-line manufacture of tape **tabs** that may be manufactured concurrently with the chassis of the absorbent article to which the tape **tabs** will be attached. The first step is to provide a backing substrate upon which the **adhesives** of the tape **tab** can be applied. Once the backing is provided, a pressure-sensitive **adhesive** is applied to regions of one side of the backing substrate. (The pressure-sensitive **adhesive** preferably functions as the **adhesive** used to fasten an element of the absorbent article, such as a front waist region, to another element of the absorbent article, such as a rear waist region). The backing substrate is then slit in a direction parallel to the machine direction and the release surface of a release substrate is placed in contact with the pressure-sensitive **adhesive**, forming a laminate comprising the backing substrate and the release substrate. The release substrate preferably covers the entire surface of the backing substrate upon which pressure-sensitive **adhesive** has been applied. However, in a preferred embodiment, at least a portion of the backing substrate extends outwardly in a direction parallel to the cross machine direction beyond the longitudinal edges of the release substrate. The surface of the laminate, including the surface of the release substrate that is not in contact with the pressure-sensitive **adhesive**, and any of the backing substrate not covered by the release substrate is then coated with a construction **adhesive**. (The construction **adhesive** is used to join the tape **tabs** to the absorbent article). After the construction **adhesive** is applied to the surface of the laminate, the laminate is slit in a direction parallel to the machine direction and either rewound for shipping or storage, or fed to a taper unit that is integrated into the absorbent article manufacturing line. The taper unit cuts individual tape **tabs** and applies them to the absorbent article chassis.



35.

Absorbent article for newborns

SE0303068

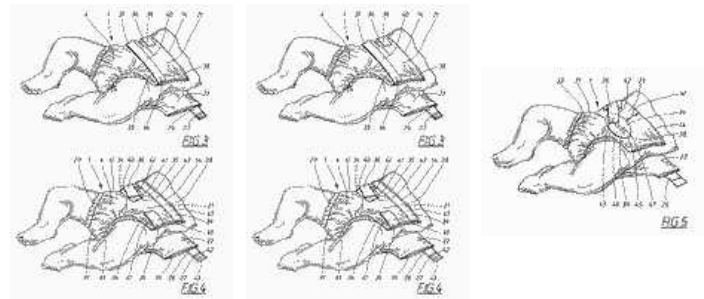
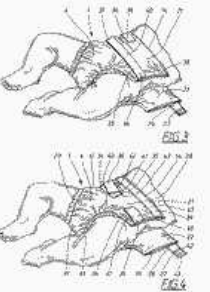
2003-11-20

ESSEA Å-HIGH GENE PRODUCTS Å-URBAY
SCA HYGIENE PRODUCTS*

2003-11-20

2003-11-20

Disposable **diaper** (1) for newborns, comprising **fastening tabs** (26, 36) connected to the rear end portion (22) of the **diaper**, and a fixing location (34) for fixing the **fastening tabs** (26, 36) below the umbilical cord of the infant, the disposable **diaper** (1) comprising means (35) for indicating the position of the fixing location (34).



36.

Release coating composition and method of making a release coated backing

EP1002846

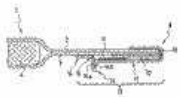
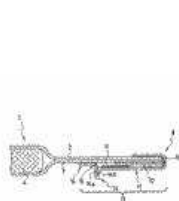
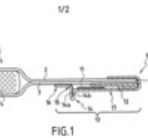
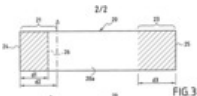
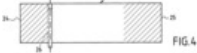
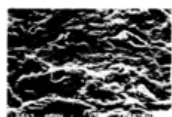
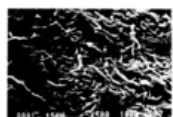
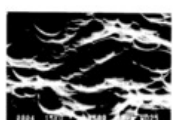
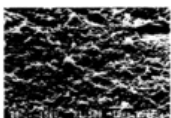
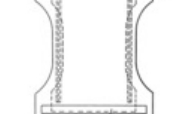
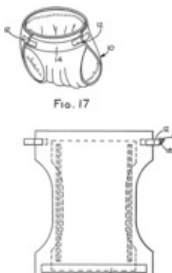
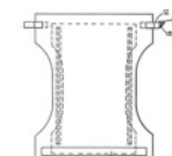
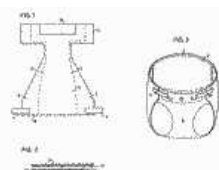
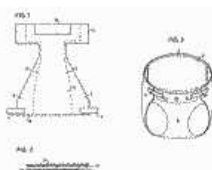
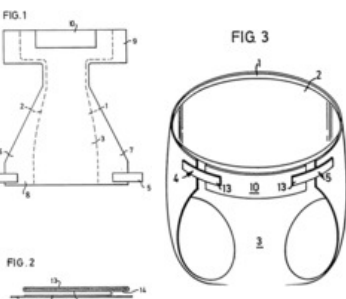
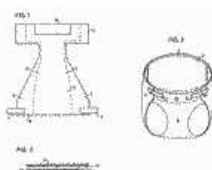
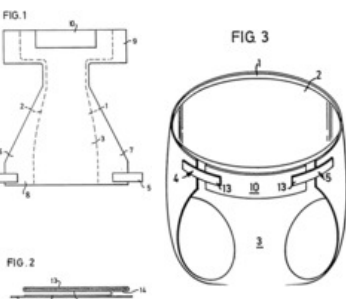
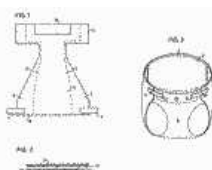
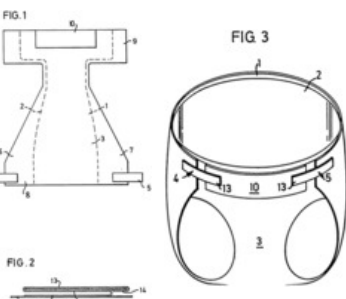
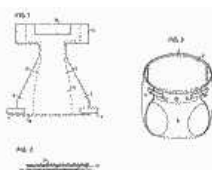
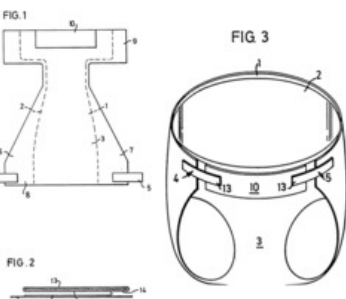
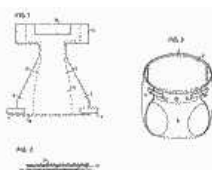
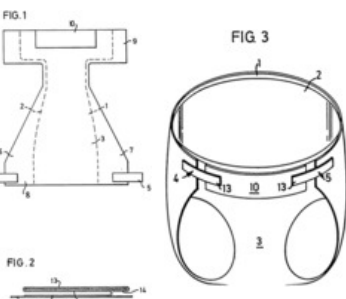
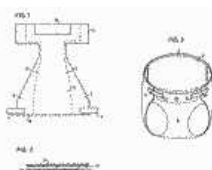
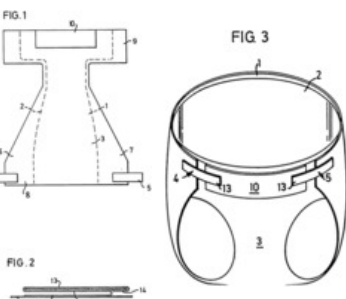
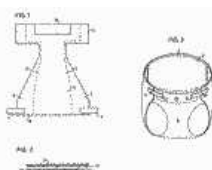
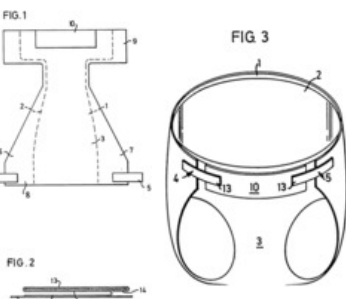
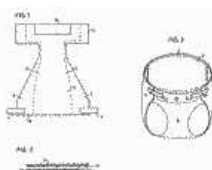
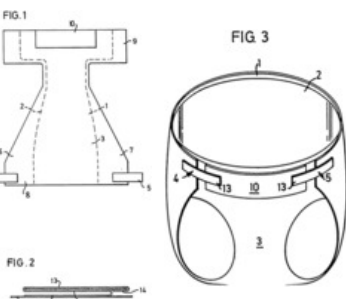
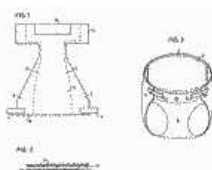
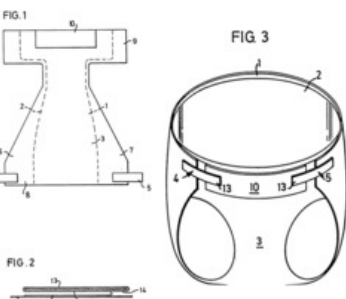
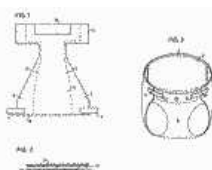
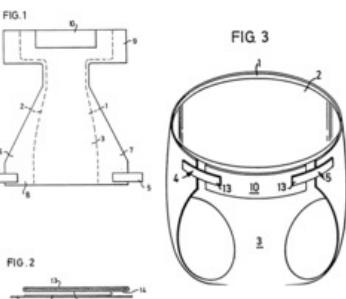
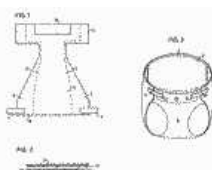
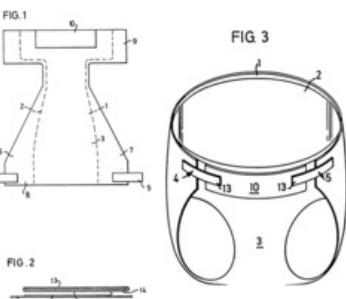
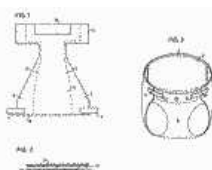
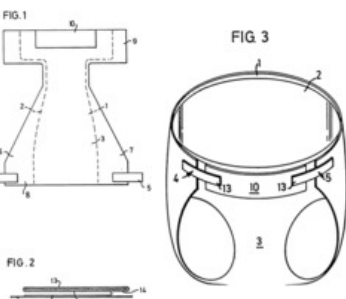
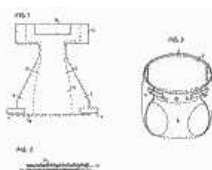
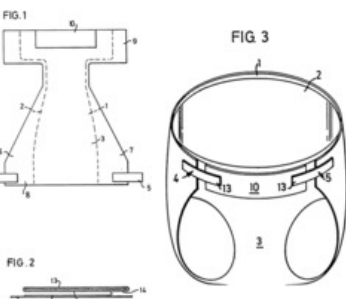
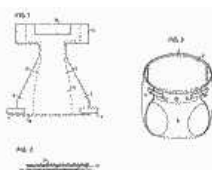
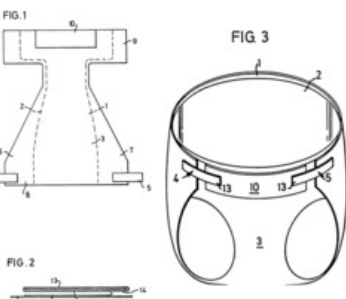
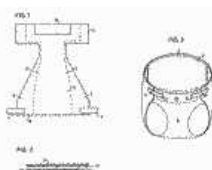
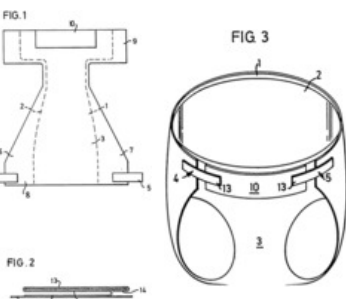
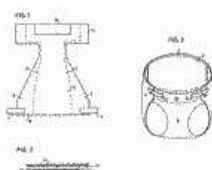
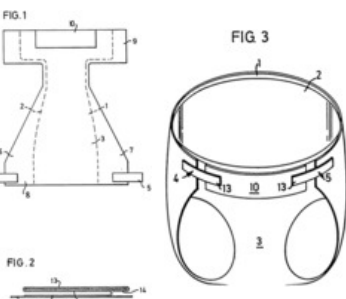
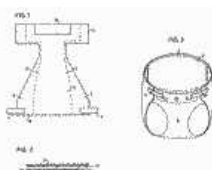
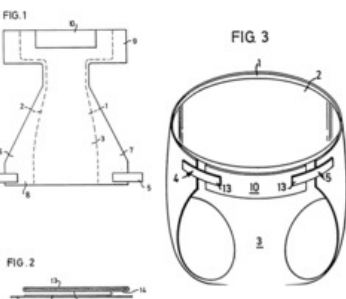
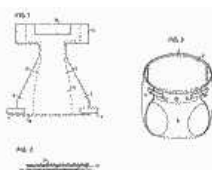
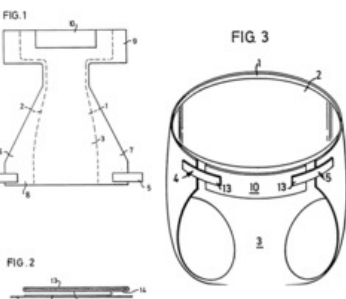
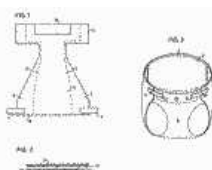
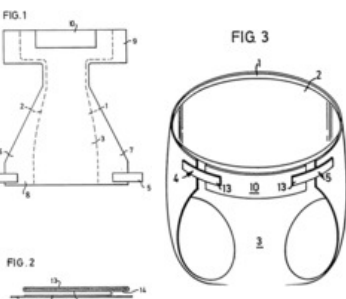
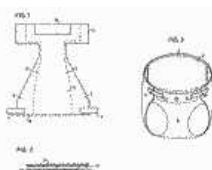
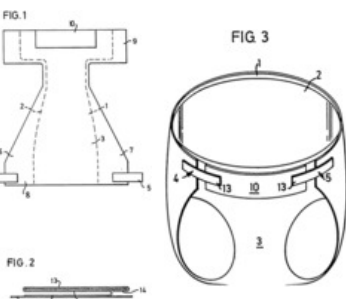
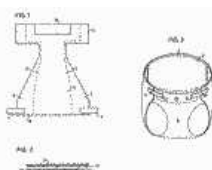
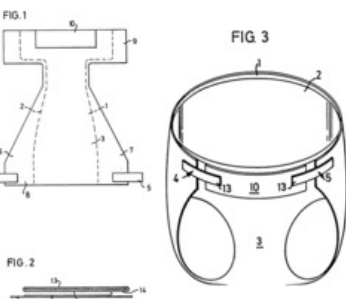
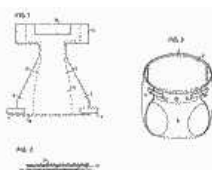
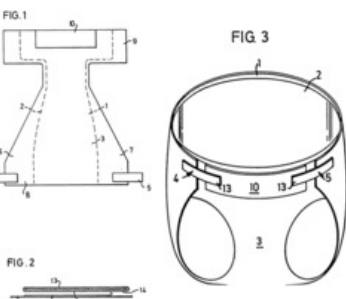
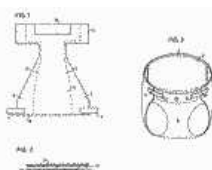
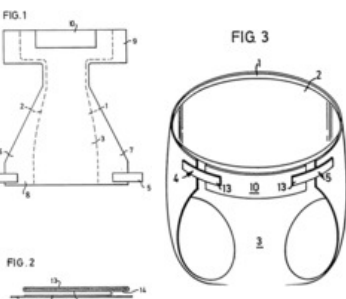
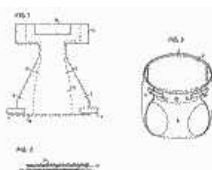
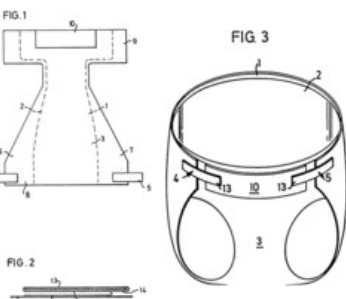
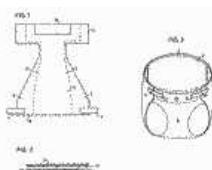
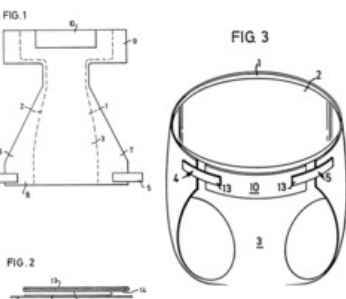
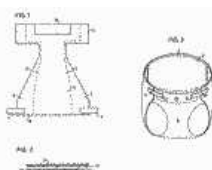
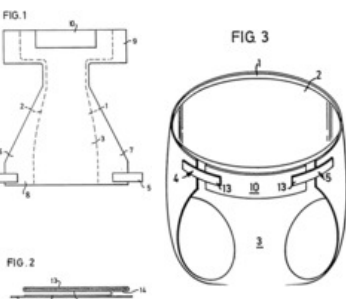
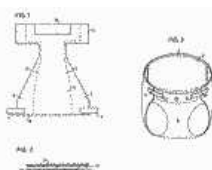
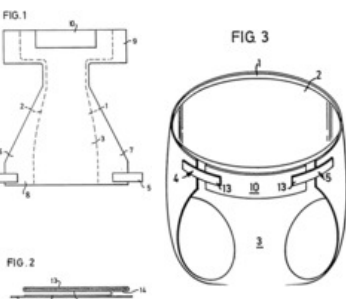
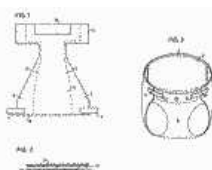
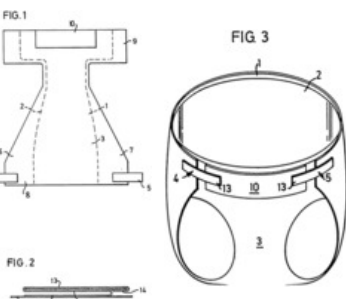
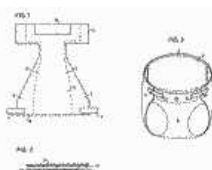
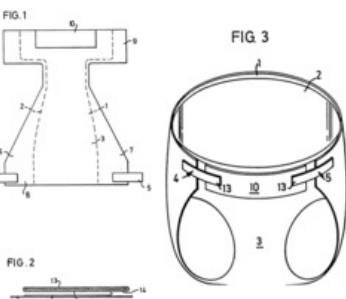
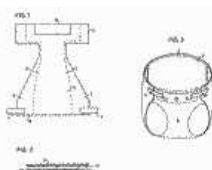
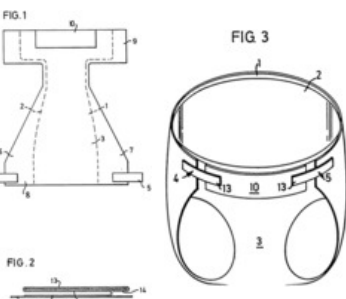
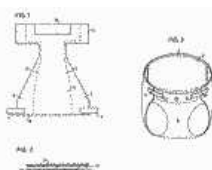
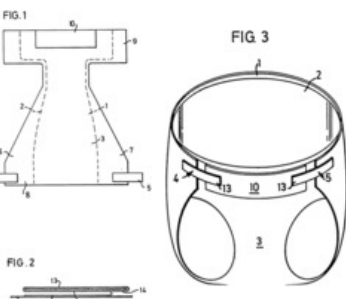
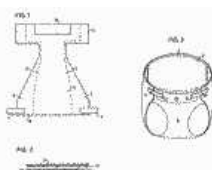
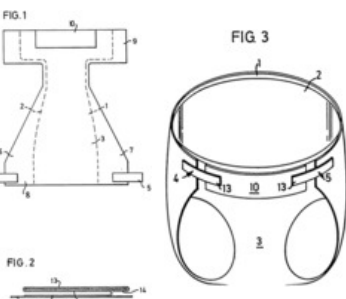
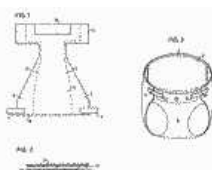
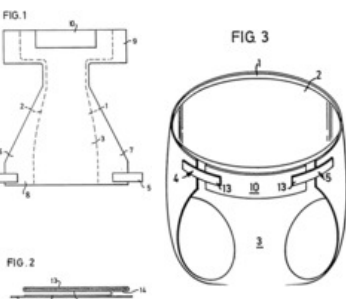
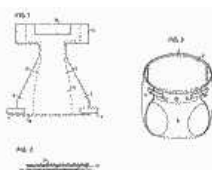
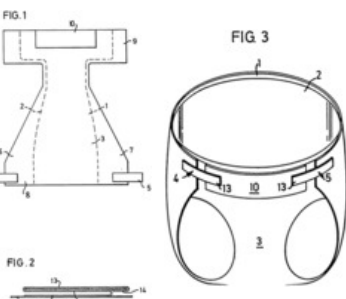
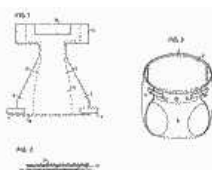
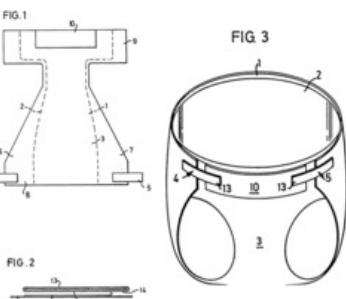
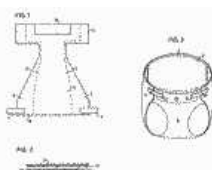
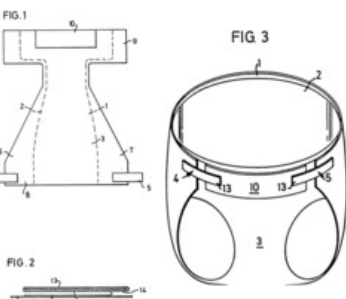
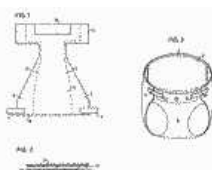
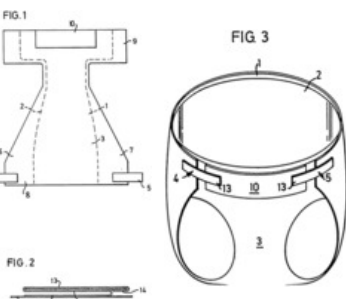
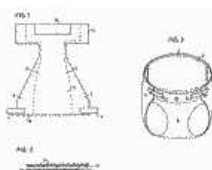
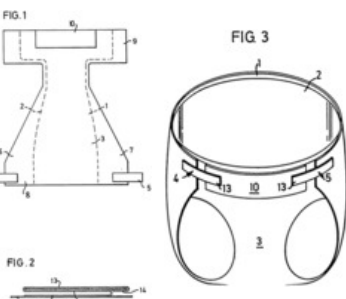
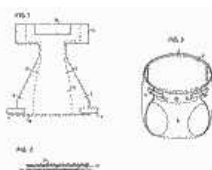
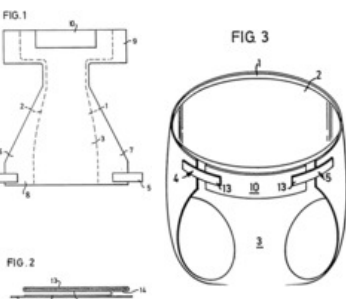
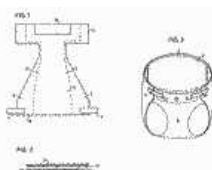
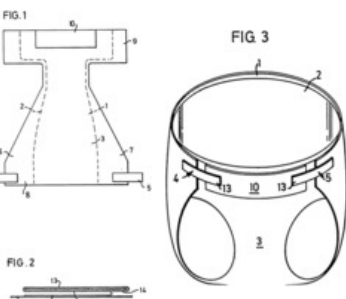
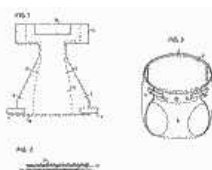
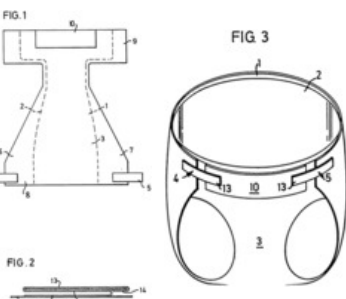
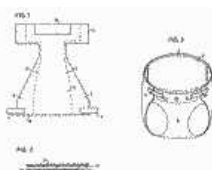
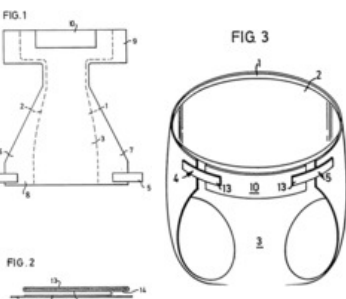
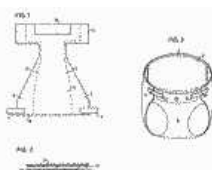
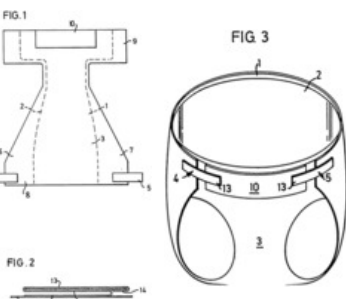
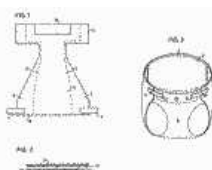
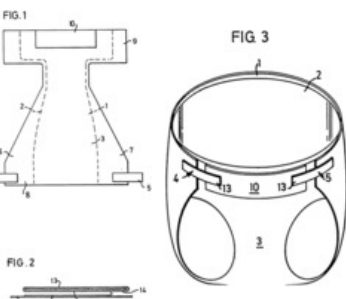
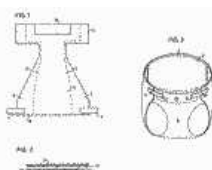
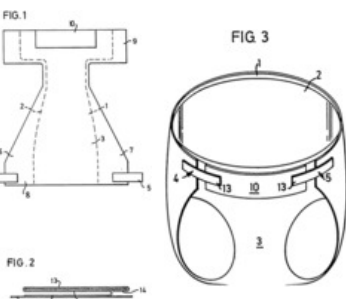
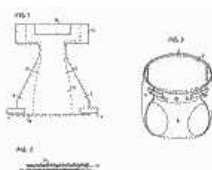
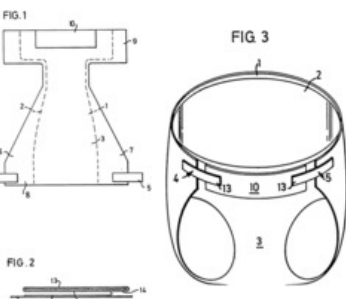
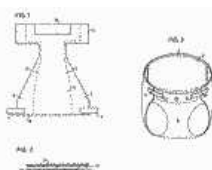
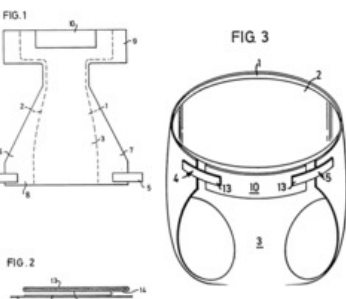
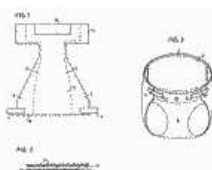
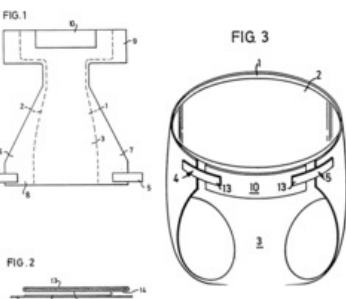
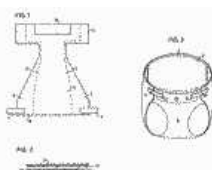
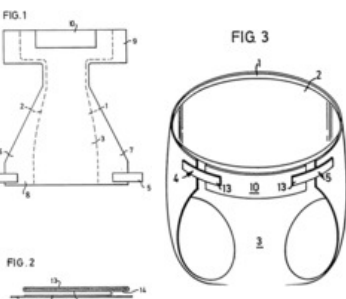
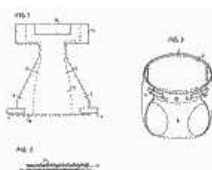
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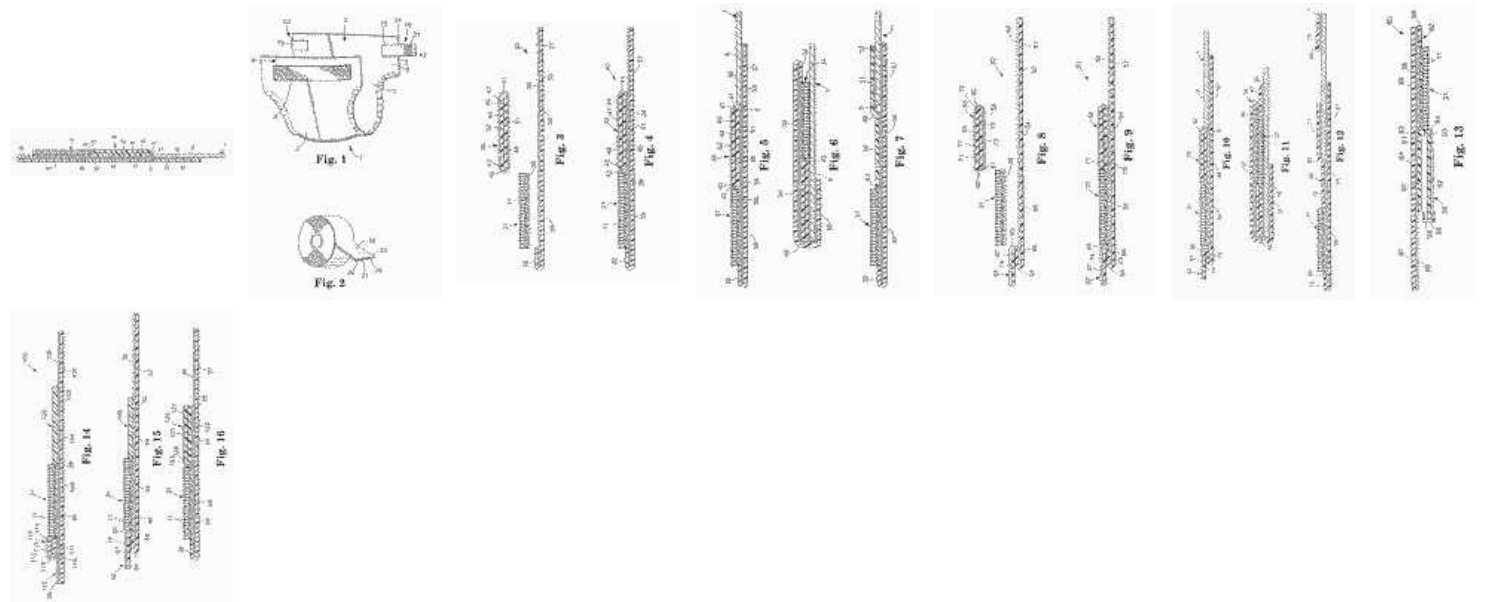
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The present invention provides a method of making a release coated backing having a fibrous layer of woven fibers or of non-woven fibers of thermoplastic polymer, comprising the steps of coating a curable silicone release coating composition on the fibrous layer of the backing and curing the thus applied silicone release coating by exposing it to actinic radiation or heat, said curable silicone release coating composition comprising (i) a polydialkylsiloxane having acrylate and/or methacrylate groups and the ratio of the average number of dialkylsiloxane units to the average number of acrylate and methacrylate groups being between 10 and 15, and (ii) an organic compound free of silicon and comprising at least two reactive groups selected from the group consisting of an acrylate and a methacrylate group, said organic compound free of silicon having a viscosity of at least 500 mPa·s at 25 °C, and the weight ratio of said polydialkylsiloxane to said organic compound being between 8:92 and 35:65.

39.	Disposable nappy with self-gripping side tabs, comprises tab ends folded over and stuck down prior to use	FR2807939	2000-04-21	PROTECO*	2001-10-26	2001-10-26
A nappy is fastened at waist by side tabs (8) with hooks (11) (or loops) engaging with loops (or hooks) on the front surface. The end (16) of each tab is stuck down prior to use and equipped with a folded portion (14) and a tear line (15) allowing it to be pulled free for fastening. The height of the folded portion is 3-10 mm, and the tear line is pre-perforated in the material of the tab, which is preferably non-woven.						
						
     						
40.	Pressure-sensitive adhesive closure for disposable diaper	US5342339	1991-05-16	3M*	1994-08-30	1994-08-30
A pressure-sensitive adhesive closure for a disposable diaper can exhibit high peel resistance both at low and high speeds while its peelability at high speeds is not excessively shocky when it employs a pressure-sensitive adhesive of a certain rheology and it has, covering the fastening area, a polyolefin layer having microtopographical features as in FIGS. 1-6 of the drawing. As seen in FIGS. 1-6, suitable microtopographical features are provided by a large number of closely spaced asperities at least two micrometers in height that have a jagged appearance at 500x. A pressure-sensitive adhesive of suitable rheology can be provided by a blend of an AB block copolymer, such as a copolymer of styrene and either isoprene or butadiene, and tackifying resin, preferably a mixture of liquid and solid tackifying resins.						
						
                						
41.	Disposable diaper	SE8206042	1982-10-25	MOELNLYCKE HEALTH CARE* SCA HYGIENE PRODUCTS	1982-10-25	1982-10-25
A disposable diaper put on by means of pressure-adhesive tape, has a liquid-permeable inner layer closest to the user during use of the diaper, a liquid-tight outer layer, and an absorbent layer disposed between the inner and outer layers. Tape tabs at one end of the diaper close to the corners of the diaper have a portion permanently joined to the liquid-tight outer layer at that diaper end. A plastic strip for fastening the tape tabs when putting the diaper on the user is disposed on the opposite end of the diaper and consists of a material which is inelastic and has suitable properties for fastening the tape tabs as well as removing and refastening the tape tabs. The plastic strip is elongated transversely of the diaper to permit adjustment of the tension of the diaper around the user by loosening and refastening the tape tabs. The strip extends across the width of the diaper on the outside of the liquid-tight outer layer. The tabs are also fastened to the same side of the liquidtight outer layer.						
						
                                                                                                  						

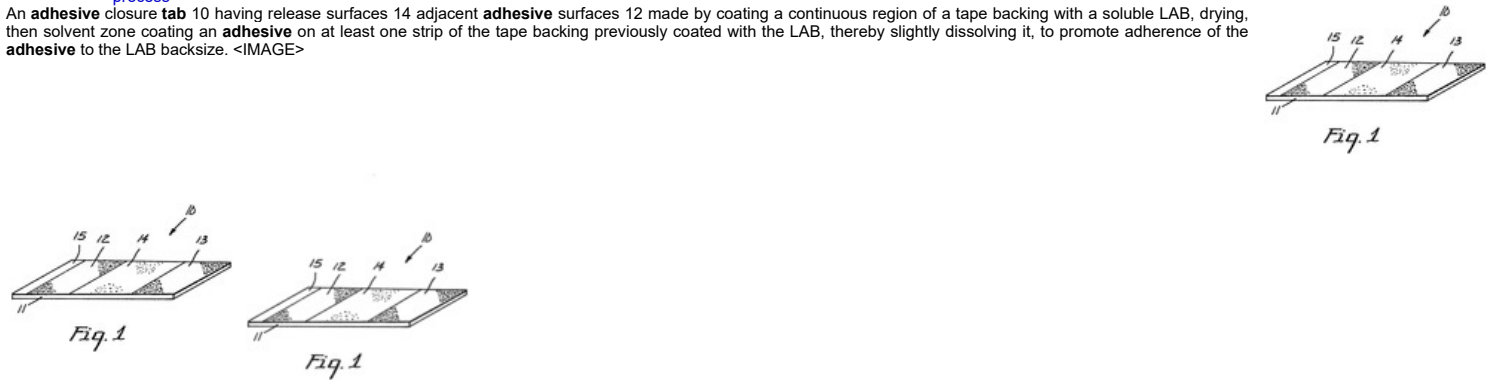
42. Diaper fastener with perforated tear line WO200158402 2000-02-07 3M* 2001-08-16 2001-08-16

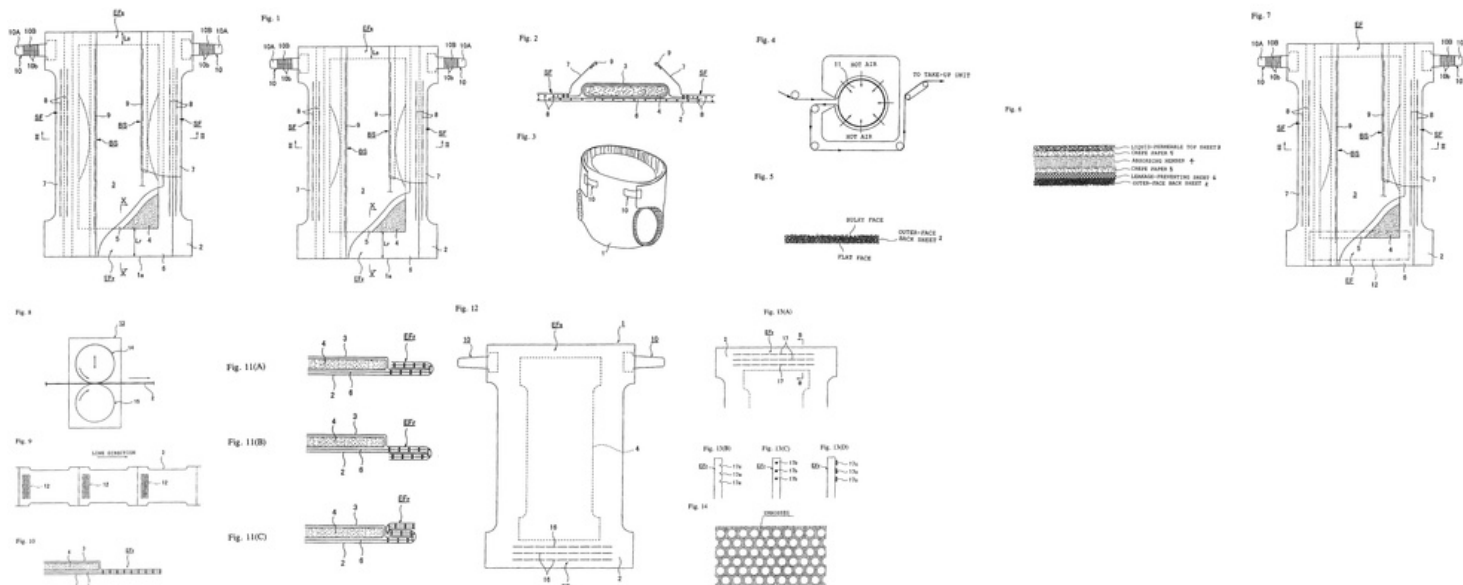
A mechanical fastener tape **tab** laminate comprising a tape **tab** backing having at least a first distal end portion, an inner **tab** portion and second distal end portion, the second distal end portion provided with a mechanical fastener material, the first distal end portion provided with an **adhesive** layer for attachment to a disposable absorbent article, the tape **tab** backing further having a **folded** tape portion comprising a backing having an **adhesive** layer on an outer face and having at least an inner leg portion and an outer leg portion, the outer leg portion having an exposed **adhesive** provided for attachment to the disposable absorbent article, the inner and outer leg portions separated by at least one **fold**, the **folded** tape portion backing having a line of weakness along the at least one **fold**, wherein the line of weakness is provided on a portion of the tape **tab** backing spaced from the first distal end portion.



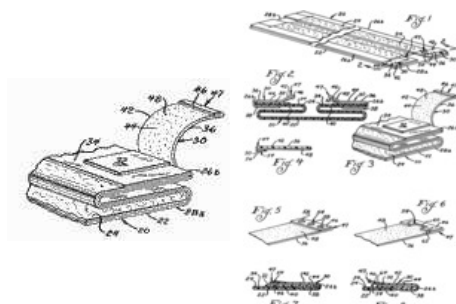
43. Zone adhesive/release coated tape and process US5004630 1990-05-08 3M* 1991-04-02 1991-04-02

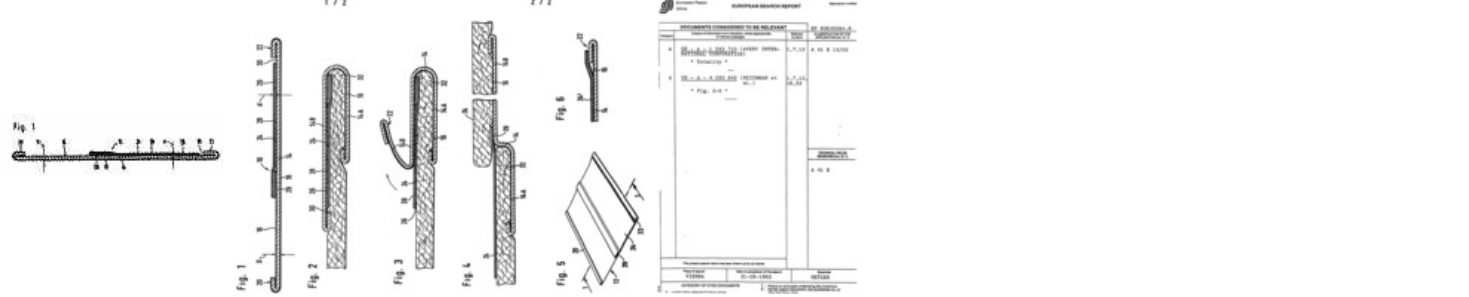
An **adhesive** closure **tab** 10 having release surfaces 14 adjacent **adhesive** surfaces 12 made by coating a continuous region of a tape backing with a soluble LAB, drying, then solvent zone coating an **adhesive** on at least one strip of the tape backing previously coated with the LAB, thereby slightly dissolving it, to promote adherence of the **adhesive** to the LAB backsize. <IMAGE>

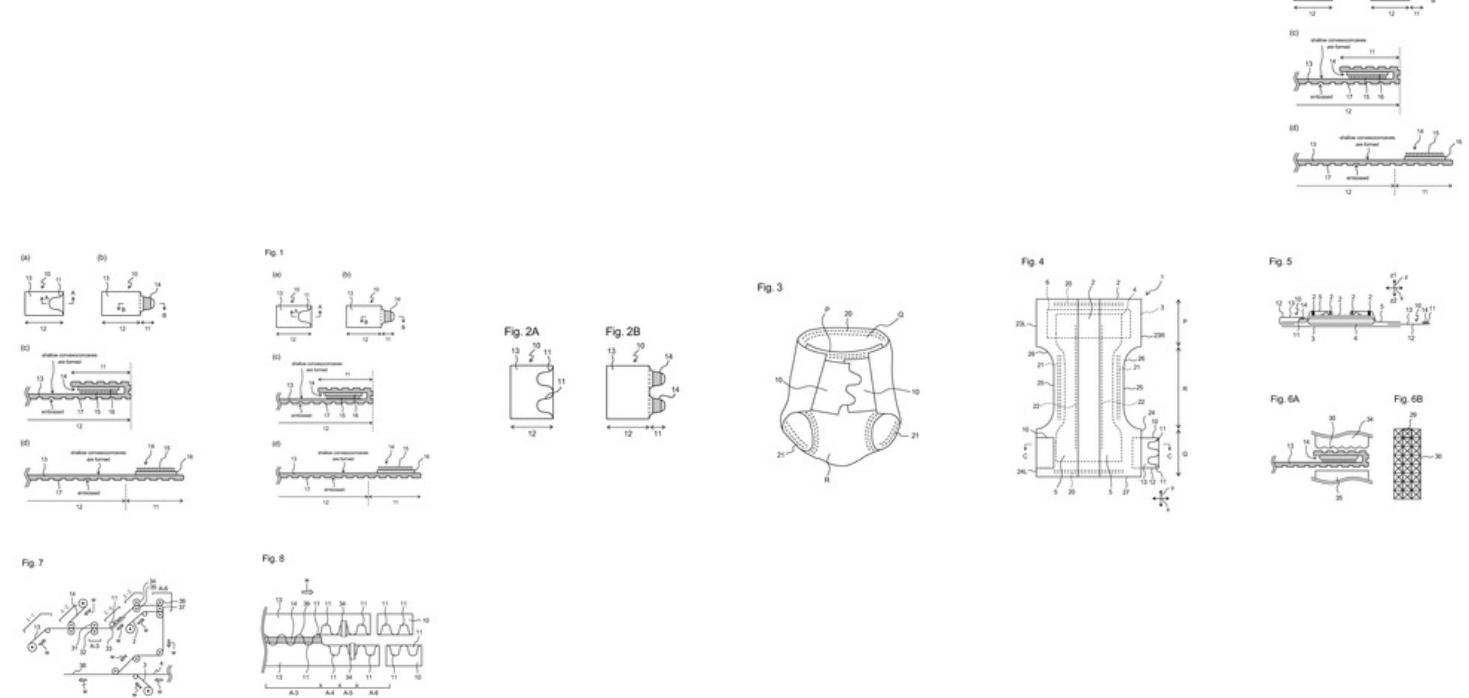


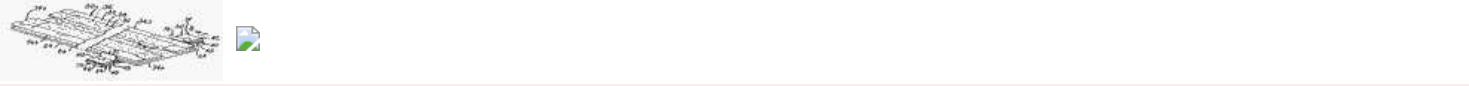


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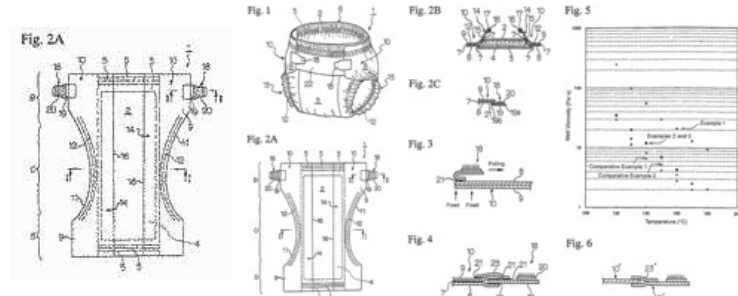
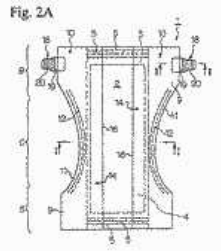


46.	Improvements in diaper fastener tabs and tape stock for diaper fastener tabs.	EP0099846	1983-05-18	ZERVOUDAKIS JOHN	1984-02-01	1984-02-01
A diaper tab and a diaper tab tape stock comprising a web construction made up of flexible first and second substrates. Each substrate has a fastening means on a first side. A release means is disposed on a second side of the second substrate. The first substrate (14) is substantially twice the thickness of the second substrate (24). The fastening means of the first substrate (14) is connected with the fastening means of the second substrate (24) along substantially a center line of the tape (10) to form a joining region. The second substrate (14) is folded back on itself over the joining region and over the first substrate (14) so that the release coating of the second substrate (24) contacts the fastening means of the first substrate (14). The edges of the first substrate (14) are substantially twice the thickness of the first substrate (14) so that the edges of the tape (10), which become the ends of the diaper tab, and the area in which the second substrate (24) is folded back on itself are all of substantially the same thickness. When the tape (10) is wound in layers on a roll sideward creep is avoided, thereby increasing the precision of placement of the diaper tap (10) on a diaper and greatly reducing the loss of finished diapers due to improper positioning of the tabs (10) on the diapers.						
						

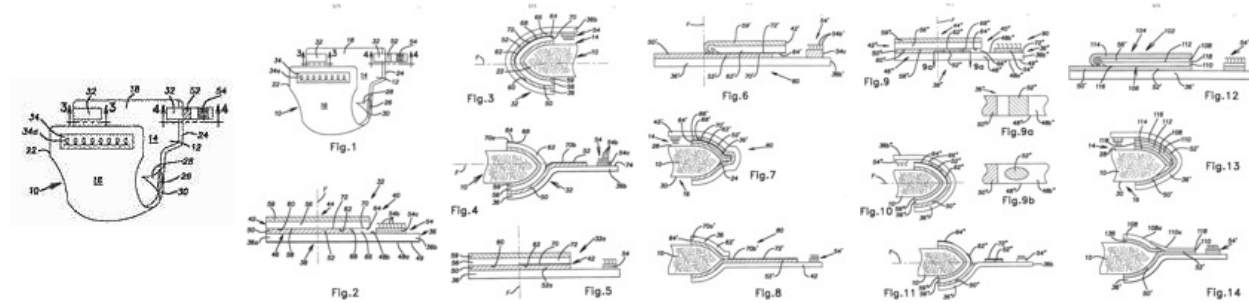
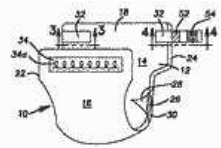
47.	Fastening tape and disposable diaper having the same, and process for manufacturing thereof	WO2009123253	2008-03-31	LIVE LIVEDO*	2009-10-08	2009-10-08
A fastening tape comprising a tab portion formed at one end of a tape substrate made of a nonwoven fabric, and a fixing portion formed at the other end of the tape substrate so as to be attached to a disposable diaper, wherein: a male component of a hook-and-loop fastener is fixed to a surface of the tape substrate at the tab portion; the opposite surface of the surface with the male component of the tape substrate is embossed; the tab portion is folded back at the boundary between the tab portion and the fixing portion so that the male component is on the folded inner side; and the male component on the tab portion is joined to the fixing portion of the tape substrate.						
						

48.	Disposable diaper with adjustable tape fastener	PT65772	1975-11-03	COLGATE PALMOLIVE*	1976-11-01	1976-11-01
A disposable diaper comprising, an absorbent pad assembly having opposed surfaces, and a side edge. The diaper has a tape fastener comprising, an elongated pressure-sensitive tape strip having an adhesive surface, a first end portion secured to one of the surfaces of the pad assembly adjacent the side edge, and a second attachment end portion extending past the side edge. The fastener has an adjustment member comprising an elongated sheet having a first section fixedly attached to the diaper, and a second section releasably attached to an adhesive area on the second strip portion. The second sheet section is spaced from an end of the second strip portion to expose a region of adhesive for use in securing the diaper about an infant, and the second sheet section is peelable from the strip to selectively enlarge the region of adhesive.						
						

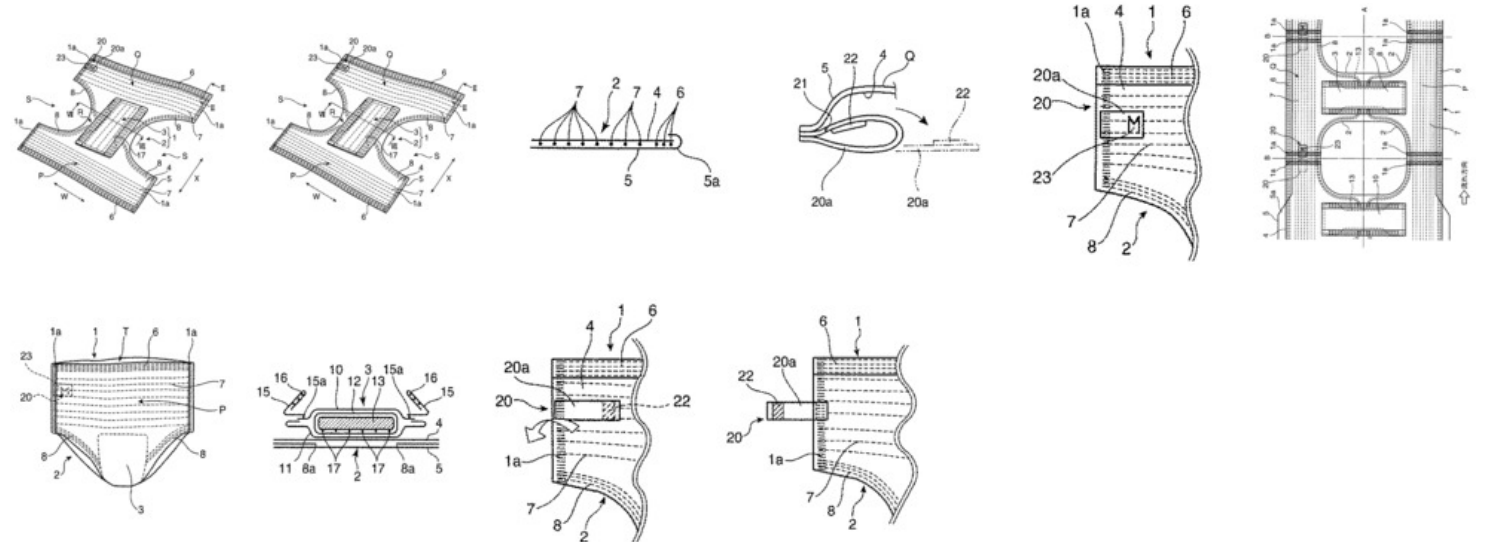
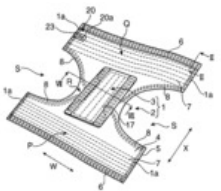
A disposable **diaper** having a topsheet (2), a backsheet (3) and an absorbent member (4) interposed between two sheets is disclosed. A hot-melt **adhesive** having a melt viscosity of 10 to 1000 Pa.s at 140 DEG C is used to join any two of members constituting the **diaper** (1). <IMAGE>

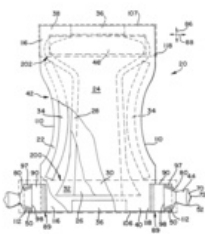
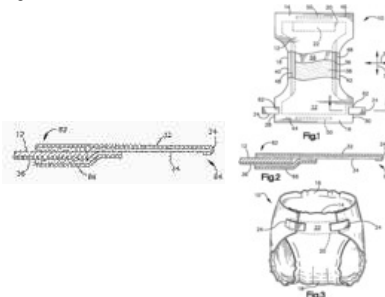
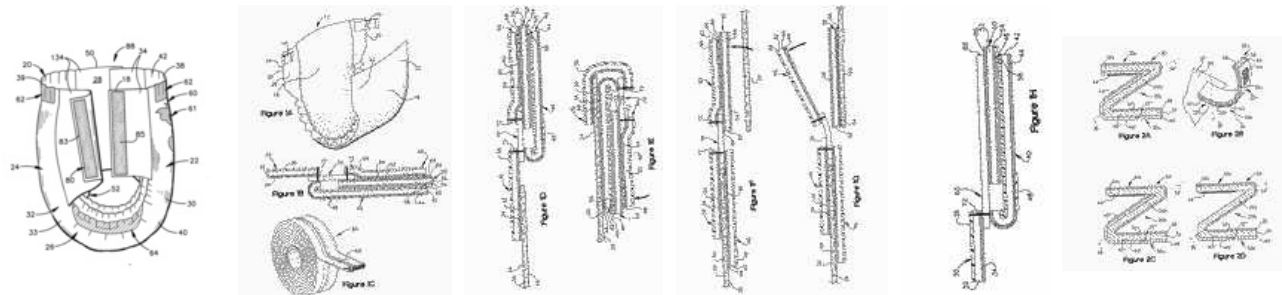
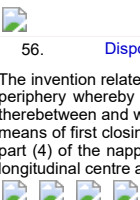


A **diaper** (10) has a multi-layer **tab** (32) or tape assembly (32) arranged to form the user joint with a mechanical securement portion (54), and to provide at least one adhering or **adhesive** securement portion (52) for maintaining **tab** stability as the **tab** (32) is assembled with the **diaper** (10) and during **tab** (32) storage on the **diaper** (10) prior to **tab** (32) deployment. The adhering securement portion (52) includes a separation interface or separable bond portion that is separable to provide exposed non-**adhesive** surfaces upon **tab** (32) deployment to the **fastening** position. The separable interface or bond portion is provided by a transferable release coat that remains with and covers an otherwise exposed **adhesive** surface, a non-pressure sensitive **adhesive** or cohesive, or separable or peeling films. A central finger lift may be provided to facilitate proper layer separation and deployment of the **tab** (32) during use.



PROBLEM TO BE SOLVED: To provide a pants type disposable **diaper** which can reduce the uneasiness felt by the user as much as possible while allowing the specifying of the front or back in the way of the body before wearing.
SOLUTION: A **tab** 20 is so arranged as to be extended to the side of the user between an elastic member 6 for the waist and elastic members 8 for the leg hole while being joined on at least one of a front belly part P and a rear back part Q at one 1a of both side rim parts 1a and 1a of the front belly part P and the rear back part Q. An **adhesive** part for **fastening** the **tab** 20 on the body of the **diaper** is disposed on the **tab** 20 being kept from contacting the skin of the user.
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52.	Diaper with lateral elongation characteristics	SV1994000045	1994-08-26	KIMBERLY CLARK* KIMBERLY CLARK WORLDWIDE	1995-09-25	1995-09-25
An absorbent article includes a fastening tab (44) connected to each side edge (110) in a first waistband section (40). Each fastening tab has a user bond section (52) that is adapted for securing the article during use. A pair of laterally separated, elasticized side sections (89) of the article is operatively connected to the first waistband section to provide the article with a spatially discontinuous lateral elasticity. The absorbent article defines a fastening panel (200) which is located in the first waistband section and extends longitudinally from one end edge inward 7.62 centimeters and laterally between the user bond sections of the fastening tabs. The fastening panel provides a first cycle extension force of less than about 1720 grams at a 27 percent lateral extension.						
53.	Refastenable adhesive taping system	WO9424976	1994-04-20	AVERY DENNISON* LERNOUT & HAUSPIE SPEECH PRODUCTS	1994-11-10	1994-11-10
A refastenable diaper (10) is provided with a securing zone (20) on the diaper outer cover (12) of a peak strength of less than 2750 grams/inch. A refastenable adhesive taping system for the diaper (10) includes an adhesive fastening tape (24) comprising a flexible backing (32) and a layer of pressure sensitive adhesive (34) permanently combined to the flexible backing (32) and adapted to be applied to and released from the securing zone (20) to fasten and open the diaper (10). The adhesive (34) exhibits a 180 degree peel adhesion of the tape (24) to the securing zone (20) that is less than the peak strength of the securing zone (20). The adhesive (34) is selected to be within a specified rheological window, that is, have a maximum tan delta of from 1.5 degrees Celsius to 2.5 degrees Celsius at 20 degrees Celsius, reached at a frequency of greater than 500 rad/sec.						
54.	Diapers, diaper fasteners, and/or diaper landing areas	US20050277905	2005-06-09	AVERY DENNISON*	2005-12-15	2005-12-15
Diapers, diaper fasteners, and diaper landing areas which incorporate cohesively engaging or engagable surfaces to provide selective closure and/or selective removal of a diaper from a user. The cohesive surfaces can be printed, coated, sprayed, extruded on, co-extruded with, or otherwise applied to the host substrate. Alternatively, the cohesive surfaces can be integral with the host substrate or material. In either case, the cohesive engagement preferably occurs upon contact and slight (e.g., manually applied pressure) pressure and/or preferably occurs at room temperature (e.g., heat is not required).						
55.	Disposable diaper fastening system	IT8267081	1981-01-29	UNI CHARM KAWANOE EHIME UNICHARM*	1982-01-28	1982-01-28
A diaper with a core between face and backing sheets has a fastening tape secured at one end to the backing sheet, and a reinforcing tape adhered on its non-adhesive surface to an adhesive surface of the fastening tape free end so that the reinforcing tape tip projects beyond a non-adhesive grip tab on the fastening tape free end. The fastening tape end can be secured to a point on the diaper with interposition of the reinforcing tape to secure the diaper around the waist, and can be peeled off and reattached without peeling off the reinforcing tape. The tapes are pref. of the same width and the reinforcing tape is coloured to distinguish it from the backing sheet.						
56.	Disposable nappy with a hip band	WO2005016210	2003-08-06	PAUL HARTMANN*	2005-02-24	2005-02-24
The invention relates to a disposable nappy (2), used more particularly in the event of incontinence, comprising a hip band (10) forming a hip opening in the nappy which is closed in the direction of the periphery whereby said hip band can be opened in at least one place and can be closed, also comprising a front area, a rear area and a main nappy part (4) which has a crotch area located therebetween and which comprises an absorbing body (6) for liquids. The main part (4) of the nappy can be detachably fixed, using the longitudinal end of the front area or rear area, to the hip band by means of first closing means (34) such that a user can place the main part (4) of the nappy between his/her legs when the hip band is worn (10) and can detachably fix the free longitudinal end of the main part (4) of the nappy to the hip band (10). The hip band (10) is made of a single-pieced material section (8) which is added to the main part (4) of the nappy and which is folded on the two sides of a longitudinal centre axis around two fold lines (20) extending in the longitudinal direction (18) of the nappy.						

57.	Disposable diaper	JP2014028064	2012-07-31	DAIO SEISHI*	2014-02-13	2014-02-13
PROBLEM TO BE SOLVED: To prevent the occurrence of leakage by prompting a user to tear an easy-tearing line provided in a fastening sheet when used and fitting a paper diaper to the user with the torn fastening sheet.SOLUTION: The disposable diaper is provided, in which at least two upper and lower projecting portions projecting outward are each formed on a base sheet in both the sides of the back of the paper diaper, and which is worn in a body by having the fastening sheet in which an adhesive layer or a surface fastener element is provided in the inside surface of the projecting portion and fastening the projecting portion on the abdominal side surface of the paper diaper. In the disposable diaper, the easy-tearing line is formed from the tip side to the base end side between the upper and lower projecting portions, and in a product state, the tip side of the fastening sheet is folded back with the inside surface side of the projecting portion kept inside and the right and left positions of the folded-back are closer to the base end side of the fastening sheet than the tip of the easy-tearing line. 						
58.	Diaper.	FR2681243	1991-09-12	PROTECO*	1993-03-19	1993-03-19
Nappy (diaper) intended in particular for young children or incontinents, comprising at least one impermeable outer sheet (2) and at least two adhesive elements (7) for fastening, provided at the corners of the nappy (diaper) in order to allow the said layer (1) to be held in the position of use. According to the invention, the nappy (diaper) has a strip (12) capable of receiving the adhesive elements (7), and partially attached to the external face of the impermeable sheet (21), in that the middle part (16) of the said front strip (12) is free, in order to allow pressure compensation at the adhesive elements when the nappy (diaper) is closed. <IMAGE> 						
59.	Disposable absorbent article with folded ear panels and method of making same	WO9835641	1997-02-18	PROCTER & GAMBLE*	1998-08-20	1998-08-20
The present invention relates to a means of reproducibly and consistently folding the ear panels on disposable absorbent articles in order to simplify and accelerate the diaper opening process for the user, reduce the risk of potential injury to the end user and wearer caused by clipped ear panels, and create for packaging purposes, a more aesthetically satisfying arrangement in the disposable diaper pack. In another aspect of the invention, a method for the making of a disposable absorbent diaper, which incorporates the folding of the ear panels, is outlined. 						
60.	Disposable paper diaper and method of attaching expansible members of the disposable paper diaper	WO200205738	2000-07-19	DAIO PAPER CONVERTING* DAIO SEISHI* DAIO PAPER CONVERTING	2002-01-24	2002-01-24
A disposable paper diaper having an absorbent, being formed with a waist opening portion and right and left leg openings when the diaper is in use, and having many expansible members disposed, along the peripheral direction of the girth and at longitudinal intervals, at that portion of the girth within a lengthwise range extending at least from the waist opening to the starting ends of the leg openings. At least at the front body, the expansible members are formed discontinuously at part or the whole of a length range within which the absorbent is located, out of a portion extending from a joint on one side to a joint on the other side of the product. 						
61.	Body contoured disposable diaper having a sealable pocket.	CA2147793	1995-04-19	ANDREA LEVINE	1995-10-27	1995-10-27
A body contoured disposable diaper having a sealable pocket. The diaper member has opposite end edges and opposite side edges, the side edges having leg accommodating recesses midway along the length thereof extending toward each other, the member being constituted by a moisture permeable plastic inner sheet, and a moisture impermeable plastic outer sheet sealed to the inner sheet around the edges thereof, and a moisture adsorbent material between the sheets. A pocket forming sheet is provided on the outside of the outer sheet extending from a position between the middle portion of one pair of the opposite edges to one edge of the other pair of opposite edges and having opposed pocket opening forming edges extending from one edge of one of the one pair of opposite edges to the opposite edge of the one pair of opposite edges across the entire transverse dimension of the diaper member and defining a pocket opening therebetween, the pocket opening forming edges having pocket sealing members extending therealong for, when the diaper member is folded over soil on the inner sheet and the pocket opening is opened at the pocket opening forming edges and the pocket forming sheet is drawn around the remainder of the diaper to be turned inside out and enclose the remainder of the diaper within a pocket, the sealing means can be sealed to seal the soiled diaper within the pocket. <IMAGE> 						
62.	Diaper fastening system	EP0983760	1998-09-03	PROCTER & GAMBLE*	2000-03-08	2000-03-08
A disposable diaper having an adhesive tab fastener in which a first securing tape ribbon has a free end and a fixed end secured to the diaper. A second securing tape ribbon is coextensive with and adhesively but releasably attached to the adhesive-coated face of the free working end of the first securing tape ribbon. The second tape ribbon includes a pressure-sensitive adhesive coating on a face thereof. A release means is provided on the diaper topsheet. The free end of the first securing tape ribbon is adapted to secure the diaper about an infant by adhesive attachment via the adhesive-coated face of the second securing tape ribbon. The free end of the first securing tape ribbon is separable from the second securing tape ribbon to permit the opening of an applied diaper for inspection, and to make the adhesive coating on the free end of the first securing tape ribbon available for use in refastening the diaper. A grippable portion of the free working end of said first tape ribbon projects beyond the respective outermost edges of the release means and the second securing tape ribbon. 						
63.	Disposable diaper with integral disposal system	IL197570	2009-03-12	SAMUEL KARSENTI*	2009-12-24	2009-12-24
The present invention provides a diaper assembly comprising an integral disposal system, the diaper assembly comprising a disposable diaper comprising an outer layer comprising an aperture on an outer surface thereof, an inner layer and an absorbent layer disposed between said outer layer and said inner layer and a bag disposed between said outer layer and said inner layer, said bag being folded and adapted to be retrieved via the aperture and to receive and enclose said diaper, wherein the absorbent layer is of a greater thickness than the height of the folded bag. 						
64.	Disposable diaper with tape fastener	WO2008096505	2007-02-07	UNICHARM*	2008-08-14	2008-08-14
The present invention aims to improve the tape fasteners provided on the diaper chassis so that the upper outside regions of the wearer's thighs should not be irritated by the edges of the tape fasteners. A lower edge 11a of a first section 11 in each tape fastener 10 extends so that a space S is defined between this lower edge 11a and an imaginary extension of a lower edge 12a of a second section 12 in the tape fastener 10. 						
65.	Disposable diaper with adhesive tape tab fasteners	US3776234	1971-03-17	COLGATE PALMOLIVE*	1973-12-04	1973-12-04
A disposable diaper having adhesive tape tab fasteners affixed thereto to secure the diaper around an infant. Each tape tab comprises a strip of adhesive tape affixed along an edge of the diaper. At least a portion of each tape strip extends inwardly from that edge to overlie the inside surface of the diaper, with the adhesive side of the strip of tape facing the inside surface of the diaper. A first part of the portion of the tape strip overlying the inside surface of the diaper is adhesively attached thereto to hold the tape tab relatively flat against the inside surface of the diaper, so the tab will not protrude from the diaper and interfere with manufacturing, folding, and packaging the diaper. A second part of the portion of the tape strip overlying the inside surface of the diaper is free of attachment to the diaper, the adhesive on the second part being normally covered by a release sheet prior to use of the tab in fastening the diaper around an infant. 						
66.	Single substrate tab fastener	US4050121	1977-01-10	AVERY DENNISON*	1977-09-27	1977-09-27
A linerless diaper tab is formed of a single substrate which can be folded and refolded on itself in such a way as to (1) grip both sides of one part of a diaper adjacent an edge thereof and (2) provide linerless protected storage of an adhesive surface which is exposable for adherence to another part of the diaper, and (3) provide a resultant high-strength Y-configuration fastening between the two parts of the diaper. 						
67.	Disposable diapers	IE42890	1975-07-02	MCCULLINS J*	1977-01-02	1977-01-02
1513055 Diapers J T McCULLINS 28 June 1976 [2 July 1975] 28151/75 Heading A5R A disposable diaper comprises a moisture impervious backing sheet 2, Fig. 4, a mass of absorbent material 3, a porous top sheet 6, edge portions of which are secured to said backing sheet, and sealing strips 10 attached to longitudinal marginal portions of the top sheet 6, said sealing strips, in use, encircling the infant's legs, thereby reducing leakage of liquid. In Fig. 4 the backing sheet 2 is wider than the top sheet 6 and its edges are turned over the edges of the top sheet and over the sealing strips; in Fig. 7 (not shown) the backing sheet (22) and the top sheet (26) are of the same width and additional strips (29) of moisture impervious material are secured over the edges of the top sheet and the backing sheet and over the sealing strips. The diaper may be folded inwardly along fold lines 12, Fig. 1, and outwardly along fold lines 13 to form a box-pleated configuration which is maintained by means of spots of adhesive 11 located between the fold lines 12 and midway between the ends 8 and 9 of the diaper. The absorbent material 3, which may comprise cellulose fibres impregnated with a quaternary ammonium salt and surrounded by absorbent cellulosic sheets 4, 5, Fig. 4, is confined to the area between the outer fold lines 13. The sealing strips 10 may be made of resilient foamed materials such as polyurethanes or natural or synthetic rubber foams, or may comprise lengths of twisted cellulose sheet. The backing sheet 2 may be made of polyethylene, polyethylene terephthalate or plasticised polyvinyl chloride and the top sheet 6 may be a non-woven cellulose sheet impregnated with a hydrophobic resin; the edge portions of the sheets 2 and 6 may be secured together by means of an emulsion adhesive or by heat-sealing. The diaper is secured in position by adhesive fastening tabs (14), Fig. 2 (not shown) attached to the backing sheet 2. 						
68.	Diaper with adhesive tabs	BE818713	1973-08-10	JOHNSON & JOHNSON*	1975-02-10	1975-02-10
A disposable diaper of the type having a liquid impervious backing sheet is provided with a pair of adhesive tape tab fasteners, each having a flexible substrate, a coating of tacky, pressure-sensitive adhesive and a release sheet. One end of each fastener is attached to the backing sheet. The other end of each fastener extends beyond the diaper and is covered by a release sheet which adheres to the adhesive coating with an attachment force of between 300 to 700 grams per 23/4 inches of width measured by a TLM1 tester. The release sheet is co-extensive in width and length with the substrate and provides a manually grippable portion for removing the sheet from the adhesive coating. The substrate has no sizing on its back face, both faces of the substrate have surfaces to which the adhesive material will strongly adhere. The adhesive tape tab fasteners are applied to the backing sheet after being cut as segments from a roll of a laminar assembly of the substrate, the release sheet and the adhesive layer therebetween. 						

69.	Absorbent article having a fastening system	US20150032076	2013-07-29	KIMBERLY CLARK KIMBERLY CLARK WORLDWIDE*	2015-01-29	2015-01-29
An absorbent article can include a fastening system configured to attach the rear waist region to the front waist region to define a wear configuration of the absorbent article. The fastening system can include a primary fastening system and a secondary fastening system. The primary fastening system can include at least one primary first fastening component and a primary second fastening component. The secondary fastening system can include at least one secondary first fastening component and at least one secondary second fastening component. The absorbent article can further include a strip coupled to the outer cover. The strip can include the primary secondary fastening component. The at least one secondary first fastening component can be coupled to a first carrier. 						
70.	Resealable adhesive tab fastener	PT74472	1982-02-08	JIYONSON ANDO JIYONSON BEBII P JOHNSON & JOHNSON JOHNSON & JOHNSON BABY PRODUCTS JOHNSON CONTROLS INTERNATIONAL*	1982-03-01	1982-03-01
An adhesive resealable tab fastener means suitable for use on a disposable diaper is provided which minimizes tearing of the tab fastener means itself or tearing it from the diaper when opening and closing repeatedly. The tab fastener means is provided with a grippable holding means and a grippable carrying tape segment. By being able to grip both parts of the tab fastener means, accidental tearing or rupturing of the fastener or diaper is minimized. 						
71.	Disposable diaper	JP2014068849	2012-09-28	DAIO SEISHI*	2014-04-21	2014-04-21
PROBLEM TO BE SOLVED: To provide a disposable diaper constructed to visually urge a wearer to wear by tearing it along an easily slashing line previously formed on a fastening sheet.SOLUTION: A disposable diaper includes a fastening sheet in which at least two upper and lower stage projecting parts 12 projected outward from a base material sheet 8 is formed on the base material sheet formed to project outward on both sides of a back side, and fastening means including a pressure sensitive adhesive layer or a hook-and-loop fastener element is provided on the inside surface of the projecting part. With the base material sheet separated into upper and lower sides at a position between the upper and lower projecting parts, the two upper and lower projecting parts are fastened to the outer surface of the abdominal side of a paper diaper through the fastening means. At the position between the upper and lower projecting parts, two upper and lower easily slashing lines 10 are formed extending from the outer distal end side of the base material sheet toward the proximal end side, and a nip part 18 for connecting the distal end sides or the proximal end sides of the two easily slashing lines to each other is formed, and with the nip part held, the two upper and lower easily slashing lines are torn to separate the base material sheet into upper and lower parts. 						
72.	Transparent indicia embossed film.	CA2085745	1990-07-26	3M*	1992-01-27	1992-01-27
A composite adhesive fastening tape and tape system for interconnecting printed surfaces, which includes a transparent main film portion (2) with an embossed surface defined logo (3) or symbol or the like and coated on one surface with an adhesive, in the tape system is included a target film portion (4), which target film portion is optionally decorated by colored numbers, letters, patterns, shapes or figures (6). 						
73.	Disposable diaper	HK1065935	2002-10-10	UNICHARM*	2002-04-18	2002-04-18
The present invention relates to a disposable diaper. In a disposable diaper comprising a pair of side flaps respectively extending from an end portion in a lateral direction of the diaper main body and a fixing tape disposed in proximity of a farthest edge of the respective side flaps, the fixing tape is provided with a hook member, the fixing tape and the side flaps are to be engaged via the hook member, and an engaging region on the side flaps where the fixing tape is to be engaged includes portions having a different engaging force with the hook member. As a result, the fixing tape can be temporarily fixed with a modest engaging force, despite the hook member having a greater engaging force. 						
74.	Soft diaper tape	WO9424977	1994-04-28	AVERY DENNISON*	1994-11-10	1994-11-10
A fastener tab (30) for disposable diapers comprises a polymeric substrate/backing layer (38) having an exposed side (42) and an inner or adhesive side (44). Outer exposed side (42) of the substrate (38) has surface morphologies of preselected projection and/or relief dimensions which provide improved tactile softness. The fastener tab (30) further includes a release layer/coating (36) applied to the outer exposed side (42) and an adhesive (40) applied to the inner side (44) of the substrate (38). 						
75.	Disposable absorbent refastenable articles comprising folded fastening tab members	CA2904391	2014-03-12	PROCTER & GAMBLE*	2014-09-18	2014-09-18
Absorbent articles of the disclosure may comprise first and second belt webs, a folded fastening tab member comprising first and second fastening elements, first and second landing zones, and laterally opposing permanent side seams directly or refastenably joining the first and second belt webs. The fastening tab member may be joined to the first and second fastening elements. And, the absorbent article may be packaged in refastenably closed form. 						
76.	Fastening tape and disposable diaper having the same	CA2693524	2009-03-24	LIVEDO*	2010-09-24	2010-09-24
A fastening tape comprising a tab part formed at one end of a tape substrate, a fixing part formed at the other end of the tape substrate so as to be attached to a disposable diaper main body, a fastening part formed between the tab part and the fixing part, wherein an attachment is fixed to one surface of the tape substrate at the fastening part, the fastening part is folded at a boundary between the fastening part and the fixing part to form a first fold so that the attachment is inside the first fold, the attachment is joined to the fixing part of the tape substrate, the tab part is folded at a boundary between the tab part and the fastening part to form a second fold so that the attachment is outside the second fold. According to the fastening tape of the above, the tab part of the fastening tape is easily pinched and less likely to be joined to the attachment by folding the tab part, and hence handleability of the fastening tape is improved. 						
77.	Disposable diaper capable of being put on either from the front or the back of a wearer	EP1384458	2003-02-04	KAO*	2004-01-28	2004-01-28
A disposable diaper capable of being put on from either the front or the back of a wearer. The ratio of the minimum width W1 of the crotch section to the whole width W2 of the longitudinal end section having the fastening tapes is from 0.30 to 0.75. The minimum width W1 is in the area extending from the centerline across the diaper that divides the diaper length in two equal halves toward both the longitudinal end sections thereof by +/-10% of the total length of the diaper. The area ratio S1/S2 is from 0.45 to 0.60, where S1 is the area of each region surrounded by an imaginary straight line L1, an imaginary straight line L2, and each arched side edge of the crotch section, and S2 is the area of each region surrounded by the line L1, the line L2, and an imaginary straight line L3. <IMAGE> 						
78.	Improvement in fasteners for diapers	US4576600	1985-03-18	JOA*	1986-03-18	1986-03-18
A diaper fastener strip has a first zone coated with a release material (35) and a coat of adhesive (38) over the release material and a second zone (36) coated only with adhesive (38). The part of the strip having the second solely adhesive coated zone (36) is adhered tenaciously to the margin of the fluid impermeable outer backing sheet (25) of a diaper. The part of the strip having the first release material plus adhesive coated zone (35) is folded over the diaper margin to contact the adhesive with the margin of the inner fluid permeable sheet (26) of the diaper. When the strip is unfolded the adhesive transfers from the release material in the first zone to said inner sheet margin and becomes exposed for securing the diaper on a body. An alternative strip has said adhesive coated second zone (53) adhered to the backing sheet and two consecutive zones (51, 54) next to it. The first zone (51) most remote from the second zone may have adhesive coated over a release coating so when the first zone (51) is folded over a third zone (54) between the first and second zones and the strip is later peeled back, there will be adhesive transfer to an exposed in said third zone (54) for securing the diaper on a body. 						
79.	Disposable diaper and its manufacturing method	JP2006314361	2005-05-10	KAO*	2006-11-24	2006-11-24
PROBLEM TO BE SOLVED: To provide a disposable diaper for which an adhesive type fastening tape has sufficient power of holding adhesion with a diaper main body even in the case that a nonwoven fabric is stuck to a diaper main body skin non-abutting surface or in the case of using a soft nonwoven fabric for the main body skin non-abutting surface or skin abutting surface, and its manufacturing method. SOLUTION: For the disposable diaper 1, the fastening tape 5 is provided on each of both side edge parts 12 in the diaper main body 10. The tape base material 51 of the tape 5 of the diaper 1 is folded so as to be from the skin non-abutting surface side to the skin abutting surface side of the diaper main body 10, and the part 54 positioned on the skin abutting surface side of the diaper main body 10 of the tape base material 51 is freely detachably adhered and fixed on a release tape 6. The part 55 positioned on the skin non-abutting surface side of the diaper main body 10 of the tape base material 51 is fused and fixed to the skin non-abutting surface side of the diaper main body 10 by ultrasonic sealing work from the skin non-abutting surface side. COPYRIGHT: (C)2007,JPO&INPIT 						
80.	Fastening tag for disposable absorbent article	WO2012154659	2012-05-07	AVERY DENNISON*	2012-11-15	2012-11-15
A fastening tab may be used with a disposable absorbent article such as a diaper, is disclosed. The fastening tab comprises a primary tape and a release tape. The primary tape may include a first and second mechanical fastener bearing region, an exposed adhesive region, and an intermediate region. The fastening tab provided may be directly attached to a nonwoven back sheet of a diaper chassis. 						

81.	Adhesive tape tab closure system	IL115822	1994-11-29	3M*	1996-01-19	1996-01-19
A disposable tape tab closure system for a diaper or a like article is provided with at least a fastening tape tab portion and a release tape tab portion, the fastening tape tab portion (41) having an adhesive surface opposite the release surface face of a release tab portion (2), the two tabs forming a laminate attached to one face of a disposable garment. The fastening tape tab portion attached to a second face of the disposable garment by a pressure-sensitive adhesive hinge tape (16) with no adhesive bond between the fastening tape tab and the release tape tab. 						
82.	Diaper having tab fastener with an anchoring leg folded on bias	US3995639	1975-12-19	JOHNSON & JOHNSON*	1976-12-07	1976-12-07
A disposable diaper having a facing sheet defining a diaper inside surface for direction toward an infant and a backing sheet defining a diaper outside surface is provided with adhesive tabs having a free end and a digitated fixed end which includes at least two integral anchoring legs. Each leg is provided with an adhesive coating on one face thereof. At least one of the legs is folded over on a bias so that a portion of the adhesive-coated face thereof is juxtaposed to an adjacent portion of the same adhesive-coated face. The fixed end is permanently attached by means of the adhesive coatings to the diaper facing and backing sheets, at least one leg being attached to the facing sheet and the remaining legs being attached to the backing sheet. The free end of the tab has an adhesive coating on one face thereof, is releasably attached to a release region, and is separable from the release region to make the adhesive-coated free end of the tab available for use in securing the diaper about an infant. 						
83.	Disposable diaper and method for producing same	WO2012073901	2010-11-30	KAO*	2012-06-07	2012-06-07
A disposable diaper (1) includes an oblong absorbent assembly (5) having a topsheet (2), a backsheet (3), an absorbent member (4) between the two sheets and a pair of stretch panels (6) fixed on both lateral side edges of the absorbent assembly along the longitudinal direction of the absorbent assembly. A fastening tape having an attachment portion (71) is fixed to the outer edge portion (6A) of the stretch panel (6). The stretch panel (6) has an elasticized portion (6B) inward in the direction Y from the outer edge portion (6A). There is no adhesive bonds at which any members constructing the stretch panel (6) are bonded to each other with an adhesive in a region of the stretch panel (6) outward in the direction Y from the elasticized portion (6B), the region containing the outer edge portion (6A). The inner end (73t) of a tape base portion (73) is located outward in the direction X from the elastic member (62t) that is the innermost in the direction X of the plurality of elastic members (62). 						
84.	Disposable pants	WO2006019051	2004-08-17	LIVEDO*	2006-02-23	2006-02-23
The present invention provides disposable pants capable of preventing adhesive pieces from undesirably adhering to those places other than a specified position when the adhesive pieces are not used. The disposable pants (1) have functions of both pants and a diaper, and a left front abdominal part (2a) and a right front abdominal part (2b) can be expanded to the left and right by breaking left and right breaking parts (17a, 17b). The left front abdominal part (2a) and right front abdominal part (2b) are provided with adhesive pieces (22a, 22b) to be attached/detached to/from an adhesive part (23) of a central front abdominal part (2c). In the adhesive pieces (22a, 22b), projections (25, 26) provided with adhesive parts to be attached to the adhesive part (23) are folded at pleats (29) to the skin-facing side to be temporarily fixed. When the adhesive pieces (22a, 22b) are used, temporarily fixing parts are peeled to expand the adhesive pieces (22a, 22b). 						
85.	Diaper with pleat securing tape means	US3921638	1974-10-31	COLGATE PALMOLIVE*	1975-11-25	1975-11-25
A disposable diaper comprising, an absorbent pad assembly having a front surface, a back surface, a pair of side edges, a longitudinally extending central panel, and panel means overlying the front surface of the central panel adjacent its sides. The panel means includes a pair of longitudinally extending outermost panels defining the side edges of the pad assembly. The diaper has a pair of pressure-sensitive tape strips having a first portion secured to the back surface of the outermost panels adjacent the side edges of the pad assembly and a second securement portion extending from an end of the first portions adjacent the side edges of the pad assembly for use in securing the diaper about an infant during placement of the diaper. The diaper has release sheet means secured to the pad assembly at a location underlying both of the outermost panels to cover adhesive on the securement portions of the strips. The securement portions of the strips are attached to the release sheet means to retain the outermost pleats in their overlying relationship prior to placement of the diaper. 						
86.	Tape type disposable diaper	JP2016067502	2014-09-29	DAIO SEISHI*	2016-05-09	2016-05-09
PROBLEM TO BE SOLVED: To provide an easily-wearable tape-type diaper.SOLUTION: The tape-type diaper includes: an absorber 56; side flap parts SF extending laterally from side edges thereof and being folded back on the absorber 56; and fastening tapes 13 extended laterally from the side flap parts SF and folded back on the side flap parts SF. Each fastening tape 13 includes a cutting line 13D formed from a tip end side to a base end side into a protrusion shape and bridging over a folding line Z of the fastening tape 13. When a tab piece 13T surrounded by the cutting line 13D is pulled laterally, the folded-back side flap part SF is opened laterally and further the fastening tape 13 is opened laterally.SELECTED DRAWING: Figure 8 						
87.	Method for manufacturing fastening tape and diaper	JP2012085726	2010-10-18	LIVEDO*	2012-05-10	2012-05-10
PROBLEM TO BE SOLVED: To provide a technique capable of preventing a cutting failure in a width direction in manufacturing a fastening tape.SOLUTION: A folding margin portion 174 between a pair of fastening regions is folded like a bag in a lower surface, and then a base material sheet 170 is cut along a meandering cutting line 170c. By doing this, a cutting distance w1 in the width direction of the cutting line 170c is shortened. Thus, a cutting failure easily occurring in cutting in the width direction can be prevented. As a result, the base material sheet 170 can be easily and surely cut. Further, by changing a length w2 in the width direction of the folding margin portion 174, fastening tapes having different lengths can be manufactured using a common cutter. 						
88.	Disposable diaper	JP2007143633	2005-11-24	OJI NEPIA* OJI PAPER*	2007-06-14	2007-06-14
PROBLEM TO BE SOLVED: To provide a disposable diaper with excellent wearability by preventing side flaps from breaking when wearing the diaper. SOLUTION: In the disposable diaper, side flaps are formed by a front surface sheet and a cover sheet extending both the side ends in a longitudinal direction of the back sheet of the disposable diaper comprising a front body, a back body and a crotch portion located between the front and back bodies, fastening tapes are arranged in both the side end portions in the longitudinal direction of the back body side of the side flaps, target zones detachably connecting the fastening tapes are arranged in the outer side of the cover sheet of the front body side, and a strong bonding area which has bonding strength stronger than other bonding areas from the area including both the longitudinal directional side end portions to the outer area of at least the back face sheet between the cover sheet forming the side flaps of at least the back body side and the front surface sheet. COPYRIGHT: (C)2007,JPO&INPIT 						
89.	Nappy closing strip, nappy and strip material and coil of such strip material as semi-finished product	DE102010026719	2010-07-09	KOESTER*	2011-01-13	2011-01-13
The tape (1) has a transient region (31) provided between a fastening region (9) and a user region (8), where the fastening region is permanently attached to a diaper. The transient region includes a folding assistance (17) in a form of a weakening material (18) i.e. separation material (19). An independent claim is also included for a tape material for producing a diaper closure tape. 						
90.	Improving the fit and sustained fit of a diaper via chassis and core modifications	WO9619169	1995-12-08	PROCTER & GAMBLE*	1996-06-27	1996-06-27
Absorbent articles such as diapers, incontinent briefs, training pants, diaper holders and liners, feminine hygiene garments, and the like designed to provide sustained dynamic fit about the wearer during use as well as to improve the containment of body exudates and wearer comfort/mobility. Such an absorbent article has an absorbent core preferably designed to fit within the low motion zone of the wearer so that dynamic forces imparted by movements of the wearer on the absorbent core are minimized. Leg elastics as well as barrier leg cuff elastics have end portions to the longitudinal side edges. The absorbent article is also provided with a closure system for anchoring the absorbent article on the wearer to sustain the dynamic fit of the absorbent article throughout wearer. Tape tabs are disposed at an angle of approximately 45 DEG relative to the longitudinal side edges. The closure system is designed so that a plane of tension is formed at least about the front waist portion of the article to preclude rollover of the front waist portion. The absorbent article also features a terraced core including multiple layers, thus allowing exudates to be absorbed at both the top layer and along the exposed edges of the core. Preferred containment assembly designs are also provided. 						
91.	Paper diaper	JP2002253607	2001-03-03	DAIO PAPER CONVERTING* DAIO SEISHI* DAIO PAPER CONVERTING	2002-09-10	2002-09-10
A paper diaper, wherein, by using a Hook-and- Loop fastener formed by the combination of a hook element with a hook receiving element engageable and disengageable with and from the hook element, the hook element of the Hook-and-Loop fastener is fixed to both rear-sides of the paper diaper and the hook receiving element is fixed to the front side thereof so as to form a fixing means in the installation of the diaper on a wearer, the hook receiving element is formed of a base material part having a target visible from the front side and a large number of loops fixed to the surface of the base material part, and the loops are formed of straight or gently curved filament yarns. 						
92.	Adjustable diapers with fastening means	CA1212203	1983-05-03	COATES FREDRICA V	1986-10-07	1986-10-07
A diaper according to the invention comprises an absorbent washable fabric refolded into rectangular multiply form with opposite inner and outer surfaces. The fabric includes a pair of side panels which can be folded inwardly flush on the fabric inner surface to increase absorbency and give the diaper a substantially hourglass configuration to fit the profile of an infant. A pair of attachment tabs each secured to an upper corner of the fabric engage fastening strips secured to the outer surface of the fabric adjacent a lower edge thereof. The fastening strips are vertically oriented for adjustable, mating engagement with the attachment tabs to accommodate growth of the infant. A transverse edge portion of the fabric can be folded along a fold line to provide a smaller diaper for newborn infants, and a fastening means is provided to enable gradual expansion of the diaper as the infant grows. A device for removing lint from the strips or tabs is also disclosed. The device includes a handle and needle-like projections attached to the handle. The projections are slid able under the barbed or loop-like projections of the tabs or strips to remove the lint. 						

93.	Disposable diaper	JP2014004493	2013-10-18	LIVEDO*	2014-01-16	2014-01-16
PROBLEM TO BE SOLVED: To provide a disposable diaper in which the length of a fastening tape can be adjusted according to a waist size of a wearer.SOLUTION: A disposable diaper 1 includes: a fastening tape 2 having a pinch part 4 formed at one end of a tape base material 3, a fixing part 6 formed at the other end of the tape base material 3, and an adjustment part 5 formed between them; and a diaper main body 21 having a preabdomen part, a back part and a crotch part located between them. A fastener 9 is attached to the pinch part 4, the fixing part 6 is attached to the side end part of the preabdomen part or the back part of the diaper main body 21, and the adjustment part 5 is folded and temporarily fastened to the diaper main body 21 or/and the fastening tape 2 by a junction part 11. A length 13 between the fastener 9 of the fastening tape 2 and the junction part 11 closest to the fastener 9 is larger than a length 14 between the outer edge of the diaper main body 21 and the junction part 11 closest to the fastener 9. 						
94.	Diaper with tab fastener having grippable adhesive-free end region	US4136698	1976-10-20	JOHNSON & JOHNSON*	1979-01-30	1979-01-30
A disposable diaper is provided with adhesive tabs having gripping means to facilitate separation of the tab from release means preparatory to fastening the diaper about an infant. The adhesive tabs comprise a backing web which extends around and receives a marginal portion of the diaper, and a face web having continuous coating of adhesive on one face and a grippable adhesive-free region at one end. The face web comprises a fixed end permanently attached to one leg of the backing web, and an adhesive-coated free working portion situated between the fixed end and the grippable adhesive-free region. When the tab fastener is in a storage position, the free working portion is releasably attached to release means provided on the other leg of the backing web and the adhesive-free region extends inwardly from a lateral margin of the diaper and beyond the release means, so that it can be gripped for separating the free working portion from the release means when securing the diaper about an infant. 						
95.	Disposable diapers	WO2012002252	2010-06-30	UNICHARM*	2012-01-05	2012-01-05
A disposable wearing article improved so that a front waist region of a chassis can be reliably folded outwardly by relatively simple handling and, in such state, the article can be reliably fitted to the wearer's body. An article chassis 11 is provided with an absorbent core 22 extending across a crotch region 14 into front and rear waist regions 12, 13 and the absorbent core 22 is formed with a fold guiding zone 24 extending across the front waist region 12 in a direction of a transverse axis Q. A fastening system includes a first fastening system composed of first fastening elements 17 provided on respective skin-contactable surfaces of a pair of fastening members extending outward in the direction of the transverse axis Q from lateral edges 13a, 13b of the rear waist region 13 and a second fastening system composed of the first fastening elements 17 and a third fastening element 45 formed on the skin-contactable surface of the front waist region 12. 						
96.	Disposable diaper with improved mechanical fastening system	GB8928730	1988-12-20	KIMBERLY CLARK KIMBERLY CLARK WORLDWIDE*	1990-02-28	1990-02-28
An article, such as a disposable diaper, which includes a refastenable mechanical fastener system for closing and opening the waistband. The fastener comprises a hook and loop system, such as a Velcro.RTM. fastener system, developed for superior performance in fastening the waistband. The hook material of the fastener is molded of a copolymer of polypropylene which has flexural modulus of 70,00-120,00 psi; shore hardness D-40 to D-80 and the hooks are tapered base to tip, alternating hook design, of 0.04-0.05 inch caliper. The hook density in the material is about 740 hooks per inch on 40 rows to the inch on base film of 0.008-0.010 inch thickness. The loop material is a raised loop fabric of polyester fiber, two bar warp knit construction, with napped surface. The fabric is polyethylene terephthalate of basis weight in the range 1.0-3.0 ounce per square yard. The hook material is preferably mounted on the ears of the garment at the rear waistband which attaches to loop material. The loop material is mounted on the front waistband in one form of construction; or is adhesively backed and carried with the hook tabs to the front waistband where it adheres, the hook material being releasable and refastenable. The hook and loop fastener has peel force in the range of about 200-1200 gram per inch of width of fastener and shear of 6.60-20.0 pounds per square inch. In another form of the invention, a separate rear waistband is bonded to the rear margin of the diaper and such waistband has lateral ear portions with tabs of hook material attached. The waistband may be of elastomeric material for snug fit about the waist of the user. There are several other embodiments of diaper construction in the disclosure. 						
97.	Diaper with loop-type adhesive fastener	US3989047	1975-09-29	JOHNSON & JOHNSON*	1976-11-02	1976-11-02
A disposable diaper having a facing sheet defining a diaper inside surface for direction toward an infant and a backing sheet defining a diaper outside surface is provided with adhesive tabs comprising an elongated tape segment folded over to form a loop having an inner face and an outer face, the tabs including first and second terminal portions and a central portion integral with the terminal portions. The tape segment receives a marginal portion of the diaper between the terminal portions and is permanently attached to the facing and backing sheets by means of adhesive coatings on opposing inner faces of the terminal portions. An adhesive coating is provided on the outer face of the central portion of the tape segment, is releasably attached to a release region provided on the diaper inside surface, and the central portion of the tab is movable from a folded-over storage position wherein the adhesive-coated central portion is releasably adhered to the release region to a working position wherein the adhesive-coated central portion is available for use in securing the diaper about an infant. Secondary fastening means may be provided for refastening the diaper about the infant by positioning a second adhesive coating and second release means on the inside surface of the central portion. Lines of weakening may be provided in a tab having secondary fastening means to facilitate repositioning of the diaper about the infant. 						
98.	Diaper tape fastener	PT66131	1976-02-02	COLGATE PALMOLIVE*	1977-02-01	1977-02-01
A tape fastener for a disposable diaper having opposed surfaces and opening means extending through an absorbent pad of the diaper. The tape fastener has a pressure-sensitive tape strip having a first portion secured to one surface of the diaper with adhesive on the first portion being exposed through the opening means. The fastener also has a release sheet having at least a portion attached to the first portion of the tape strip by the adhesive exposed through the opening means. 						
99.	Paper diaper with attached disposal pouch	JP3157230	2009-11-21	MORI MORO*	2010-02-04	2010-02-04
Handy, aesthetically appealing paper diaper in which a disposal pouch is attached to part of the outer surface of the paper-diaper body. To all appearances the pouch cannot be seen, enabling hygienic disposal of the paper diaper without imparting a negative effect on its functionality. A disposal pouch, folded into a state in which its thickness is minimized, is interposed between a front sheet on the paper diaper and the outer surface of the paper-diaper body, or alternatively, between two plies composing a front-sheet section. An end part of the pouch is adhered to the body section in order to stop the pouch from coming loose when the paper diaper is worn, and a slit or a perforation is provided on the front-sheet section as a pouch-withdrawal opening, enabling the pouch to be withdrawn to let it be used when needed. 						
100.	Disposable diaper having a humidity transfer area	GB9524027	1994-11-23	KIMBERLY CLARK* KIMBERLY CLARK WORLDWIDE	1996-01-24	1996-01-24
An absorbent article is described which delimits a front waistband section (12), a rear waistband section (14) and an intermediate section (16) which interconnects the front (12) and rear (14) waistband sections. The article includes a substantially fluid-impermeable backsheet layer (20), a liquid-permeable topsheet layer (22) positioned in facing relation with the backsheet layer (20), and an absorbent body (24) located between the backsheet layer (20) and topsheet layer (22). The article further defines a vapor-permeable humidity transfer area (30) in at least one of the waistband sections of the backsheet. A humidity transfer material (32) overlays the humidity transfer area (30) and extends over the absorbent body. 						