

## PatentAlert 6-2009 - Bedding articles

### **DE102007054256 – HYGIENE FOIL FOR BEDS**

SCHMITT THOMAS (DE) (Inventor)

Published 2009-05-20

Priority date 2007-11-14 (DE)

#### (Machine Translation)

**Problem definition:** In many hotel beds are often strongly gotten dirty bed mattresses or pillows. Usually the contamination due to apparently clean bed cloths is covered. Beside stains pretty often urine or blood marks is or other dried up eliminations like e.g. Night sweat, saliva, sperm, shed or hair. Many hotel operators save the costs of periodic cleaning with the result that itself in hotel beds. Mould or decay. Parasite. biological or chemical impurity finding leave. With direct skin contact these materials and/or microorganisms can cause health damage.

**Problem solution:** The available invention concerns a hygiene edition for beds, consisting of several situations of functional textile materials, for predominant use on journeys, if the traveler polluted bed mattresses or pillows due to hygiene and care lacking or interspersed with parasites finds and therefore the direct skin contact to a health endangerment lead could. For this the hotel bed is covered with the hygiene edition, whereby not only the bed mattress, but as it were the pillows with to be covered to be able. The hygiene edition consists of two layers of textile materials. The lower situation serves for to the screen, i.e. prevention of a skin contact between the person lying on the bed and the bed (mattress/pillow). The upper textile situation serves...

### **DE102008003963 - TEXTILE FABRIC FOR BED SYSTEMS**

HAENSEL VERBUNDTECHNIK GMBH

Published 2009-04-30

Priority date 2007-10-26 (DE)

The invention relates to a textile fabric for bed systems, such as protective covers, pillows, bed covers, or mattresses having a two-dimensional fabric, in which electrically conducting threads are disposed that intersect with one another at certain distances, wherein a water- and air-impermeable, water vapor-permeable membrane film is glued selectively onto the two-dimensional fabric using adhesive.

### **WO200938691 - SYSTEMS AND METHODS FOR MANUFACTURING FIRE-RETARDANT MATTRESSES**

DREAMWELL LTD

Published 2009-03-26

Priority date 2007-09-18 (US)

The systems and methods described herein include, among other things, methods for manufacturing a fire-retardant mattress. In certain embodiments, the methods described herein employ an adhesive tape to secure a sock of fire resistant fabric to the exterior of a mattress core, rendering the mattress fire resistant. The mattress core may be a foam core, an innerspring core, or another type of core. The tape may be a two sided adhesive tape and the fire-retardant (FR) sock may be any suitable fire resistant material.

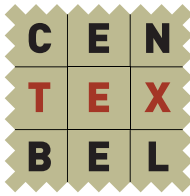
### **WO200938602 - TEXTILE KNIT FABRICS WITH ENHANCED FLAME RETARDANCY FOR MATTRESS AND HOUSEHOLD PRODUCTS**

MITSUI BUSSAN TEXTILE CO LTD; MITSUI AND CO USA INC

Published 2009-03-26

Priority date 2007-09-17 (US)

The invention provides flame resistant textile knit fabrics for use in mattresses and household products, particularly bed clothing products such as pillows, comforters, bed spreads, mattress covers and mattress pad ticking. More particularly, the invention provides a fabric made of yarn comprising about 50% to about 80% by weight of inherently flame retardant viscose rayon fiber, about 10% to about 2% by weight of modacrylic fiber, and about 10% to about 25% by weight of cellulosic fiber.



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**WO200929736 - FOAM CORE ARTICLE WITH FLEXIBLE HEAT-RESISTANT KNITTED FABRIC**

*DU PONT*

Published 2009-03-05

Priority date 2007-08-31 (US)

A foam core article such as a mattress or pillow is covered on a surface with a flexible heat-resistant knitted fabric. Preferably a further sacrificial fabric also is used to allow passage of CPSC 16 CFR 1633 with a peak heat release of less than 250 kilowatts in a 30 minute time period following ignition.

**US20090056030 - MATTRESS COVER FOR CONVALESCING PATIENT**

*IPM LLC*

Published 2009-03-05

Priority date 2007-09-04 (US)

There is provided an inflatable mattress and coverlet used to reduce and treat decubitus ulcers. The mattress is an air inflatable mattress and is particularly adapted for use on a bed in a hospital, nursing home, health care facility or the like. The air inflatable mattress has a series of apertures on the top allowing small amounts of air to pass through to the underside of the coverlet. According to one aspect of the invention the coverlet is placed over the top of air inflatable mattress in the central portion thereof between the head of the bed and the foot of the bed. The coverlet is of sufficient length to extend under the weight bearing portions of the patient. The coverlet has as a first layer a moisture wicking fabric, such as a polyester, and on one side of the moisture wicking fabric there is attached a microporous polymeric member which allows air from the mattress to pass through the coverlet to the patient. Adjacent the polymeric member is another layer comprising a spacer fabric. The side edges of the coverlet form a drip edge and may be attached to the mattress by suitable means.

**US20090044341 - FLAME RESISTANT TICKING THAT REDUCES FLAME PROPAGATION AND UPHOLSTERED ARTICLES INCORPORATING SAME**

*PREC FABRICS GROUP INC*

Published 2009-02-19

Priority date 2008-08-15 (US)

A method of producing a flame resistant ticking includes laminating a flame resistant substrate to a decorative fabric, wherein the substrate is configured to release a chemical vapor that reduces the rate of propagation of a flame along the decorative fabric when the decorative fabric is exposed to flame. The substrate is laminated in direct contact with the inside surface of the decorative fabric. In some embodiments, the laminated ticking is configured to release less than 15 MJ of heat in the first ten minutes when exposed to a flame in accordance with the testing protocol set forth in 16 CFR 1633. Upholstered articles, such as mattresses, mattress foundations, and articles of furniture, may incorporate the flame resistant ticking layer.

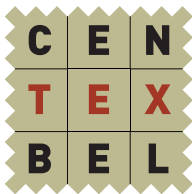
**NL1035115 - LAYER OF POLYMER FOAM IS APPLIED TO TEXTILE OR OTHER UNDERLAY TO IMPART ANTISLIP PROPERTY, ENABLING IT TO REMAIN IN PLACE DESPITE OTHER TREATMENT TO WHICH IT IS SUBJECTED AND IS PARTICULARLY APPLICABLE TO MATTRESSES**

*GROOTSWAGERS JOHANNES CORNELUS (NL) (Inventor)*

Published 2008-03-21

Priority date 2008-03-03 (NL)

The layer of polymer foam is applied to textile or other underlay to impart antislip property, enabling it to remain in place, despite other treatment to which it is subjected. It is particularly applicable to mattresses. In particular, a physical loading is avoided for elderly people and those physically handicapped, in that their mattress or other objects remain in their correct position.



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### **DE202007012017 - MATTRESS COVER FOR A MATTRESS**

HUKLA MOEBEL GMBH

Published 2007-12-13

Priority date 2007-08-28 (DE)

*(Machine Translation)*

mattress cover (1) for a mattress, in particular for a mattress core, etc.. from drill, effect commodity, fabric or a PP-fleece, with a top side (1a), etc.. an upper sheet (2), with a lower surface (1b), etc.. a undercover (3), and with at least the top side (1a) side wall connecting with the lower surface (1b) (4), etc.. Border (4a), whereby to the connection the top side (1a) with the side wall (4) in first - zipper (5) and for connection the lower surface (1b) with the side wall (4) in second - zipper (6) intended is characterized, by the fact that the side wall (4) at least a further liaison vehicle exhibits and this in such a manner arranged and/or trained is, so that a further overcover (8) - alternatively depending upon desire of the user - both on the top side (1a) and on the lower surface (1b) with the help of this liaison vehicle more positionable and/or fastenable is.

### **US20070251015 - MATTRESS SEAM TAPE AND METHOD OF MAKING SAME**

MOORE ARNOLD D III (US) (Inventor)

Published 2007-11-01

Priority date 2007-06-28 (US)

The present invention relates to a non-woven mattress seam tape and a method of making the same. Non-woven material is continuously passed over a slitting apparatus to obtain multiple lengths of mattress seam tapes. These tapes are wound and subsequently used as mattress seam tapes in the manufacture of mattresses. The mattress seam tape is a non-woven product that is made of resins such as polyethylene, polypropylene, polyester or synthetic nylon.

### **FR2917956 - FITTED SHEET AND QUILT COVER FIXING DEVICE FOR E.G. TEXTILE INDUSTRY, HAS FITTED SHEET FIXED TO QUILT COVER BY PERMANENT STITCHING REALIZED BY SIZE OF FEET OF USER BETWEEN TWO CORNERS ALONG ENTIRE LENGTH OF MATTRESS**

KACZMAREK FRANCOISE (FR) (Inventor)

Published 2009-01-02

Priority date 2007-06-27 (FR)

The device has a fitted sheet fixed to a quilt cove by permanent stitching realized by a size of feet of a user between two corners along entire length of mattress. The cover has a cut disengaging a fabric scallop along entire width of the mattress, where the scallop is fixed to the sheet. The scallop and the cut form an insertion and a removal opening that is utilized for inserting and removing the quilt.

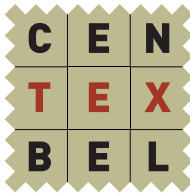
### **US20090000032 - EASY WASH**

BOS TAMARA LEE (US) (Inventor)

Published 2009-01-01

Priority date 2007-06-26 (US)

In accordance with the aspects of the present invention, an improved way for textile bedding products, particularly comforters and quilts, is by individual panels that are connected together by the "EASY WASH" application pocket for easier and less costly cleaning in standard size home washing machines and dried in standard size home clothes dryers. The "EASY WASH" application for textiles, generally comforters and quilts, also allows for the flipping over of specific panels to create and form one textile product with a different color, or color pattern.



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**JP2009013557 - FABRIC PRODUCT HAVING LITTLE COOL FEELING AFTER MOISTURE ABSORPTION**

*JAPAN EXLAN CO LTD; TOYO BOSEKI*

Published 2009-01-22

Priority date 2007-06-08 (JP)

**PROBLEM TO BE SOLVED:** To provide a fabric product having little cool feeling after moisture absorption, which has good moisture absorbability and is capable of reducing cool feeling after moisture absorption in sweating on an inside skin contact surface of the fabric product which is used by directly touching the skin or in a condition nearly touching the skin, such as the inside of clothing and the inside of bedding.

**SOLUTION:** The fabric product having little cool feeling after moisture absorption is constituted of a fabric containing an acrylic fiber having a crosslinked structure and containing the carboxyl group of magnesium salt.

**FR2916767 - FABRIC E.G. SHEET, HAS RETICULATION STRUCTURE FORMED BY YARNS ASSOCIATED TO HONEYCOMB STRUCTURE, WHERE YARNS TRANSFERS AND DISCHARGES HEAT TOWARDS AND FROM HONEYCOMB STRUCTURE, AND YARNS AND CELLS ARE PLACED ON SURFACES OF FABRIC**

*UNIKULMA OY*

Published 2008-12-05

Priority date 2007-06-04 (FI)

The fabric has a reticulation structure formed by a yarns associated to a honeycomb structure, where the yarns are made of a highly heat conducting material. The honeycomb structure accumulates the heat and emits the heat such that the fabric is protected against radioactive radiation for preventing the radioactive radiation of amplitude wave length higher than spacing of yarn in the reticulation structure. The yarns transfer and discharge the heat towards and from the honeycomb structure, respectively. The yarns and cells are placed on surfaces of the fabric. An independent claim is also included for a method for optimizing bedding conditions.

**JP2008297657 - QUILTING CLOTH, BEDDING AND DOWN JACKET**

*TEIJIN FIBERS LTD*

Published 2008-12-11

Priority date 2007-05-31 (JP)

**PROBLEM TO BE SOLVED:** To provide a quilting cloth including a facing fabric, a lining fabric and a cotton pad interposed therebetween, not only presenting good thermal insulation, but also with little dimensional change on absorbing water, and enabling its own stuffiness and stickiness to be reduced owing to air permeability improvement or unevenness development, and to provide a bedding and a down jacket each using such a quilting cloth.

**SOLUTION:** The quilting cloth includes a facing fabric, a lining fabric and a cotton pad interposed therebetween, wherein at least either one of the facing fabric and the lining fabric is composed of such a fabric as to be 10% or more larger in area in a wet state than in a dry state. The bedding and the down jacket each using such a quilting cloth are also provided, respectively.

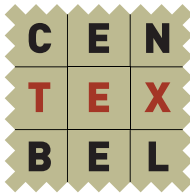
**EP1987741 - A MATTRESS WITH QUILTED PANEL AND MANUFACTURING METHODS THEREOF**

*SAPSA BEDDING SRL*

Published 2008-11-05

Priority date 2007-05-04 (IT)

A panel for a mattress comprising first and second fabric layers joined together along their edges and a padding material between said fabrics. The padding material comprises at least a layer of resilient foam provided with through-holes. The foam layer is quilted between said first and second fabric layers. Preferably the manufacturing method includes the steps of forming a resilient foam body provided with recesses, horizontally cutting a plurality of single layers in said body in the recesses portion, sandwiching at least one of said single layers provided with through-recesses in each panel between the first and second fabric layers.



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**DE202007006202 – TEXTILE MATERIAL**

WOLFF MARO; WOLFF MARA (DE) (Inventors)

Published 2007-08-02

Priority date 2007-05-02 (DE)

*(Machine Translation)*

Textile material, in particular for purchases of mattresses, cushion, seats, for articles of clothing or shoes, auto covers, home textiles of all kinds and head clothing, by the fact characterized that the textile material develops by weaving, involving, covering and/or a weaving, from two of the following three components:

- Plastic fibers, which are coated with particles from titanium dioxide, aluminum or silicon oxide in the range from 0.5 to 1.5 micrometers and thus with radiation in the visible wavelength coverage or within the close infrared range interact and function as heat accumulators,
- wires, which contain a central, not leading supporting wire, over a leading wire is wound,
- precious metal threads or with precious metal nano-particles coated fibers.

**US20080250561 - ENCASEMENT SYSTEMS**

MATTRESS SAFE INC

Published 2008-10-16

Priority date 2008-04-10 (US)

In one embodiment, a fabric cover configured to substantially surround a mattress is disclosed. A zipper is coupled to the fabric cover and configured to provide an opening in the fabric cover. The zipper is further has a zipper pull and is configured to be opened and closed by movement of the zipper pull. A zipper anchor is also configured to secure the zipper pull in a position causing the zipper to be substantially closed.

**EP1969971 - MATTRESS ENCASEMENT FOR PREVENTING BED BUG ESCAPEMENT VIA A ZIPPER OPENING**

JAB DISTRIBUTORS

Published 2008-09-17

Priority date 2007-03-15 (US)

A mattress encasement made of bug impervious fabric provides a zipper opening for removal of the mattress. A foam pad is stitched at an end of the zipper closure such that when the zipper is located at or near the end, a channel is provided to prevent or obstruct the escapement of bed bugs via the channel and out from a mattress encased by the mattress encasement.

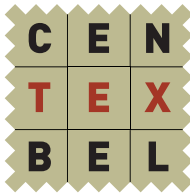
**DE102007010851 - KAPOK-CONTAINING FABRIC FOR BEDDING COVER, PILLOW AND LINEN, CONTAINS FURTHER KAPOK-FREE YARN IN ADDITION TO KAPOK-CONTAINING YARN**

SANDERS GMBH & CO KG GEB

Published 2008-09-11

Priority date 2007-03-06 (DE)

A fabric comprises a kapok-containing yarn and is down- and fiber-dense and besides the kapok-containing yarn, the fabric contains a further kapok-free yarn. The kapok-containing yarn consists of kapok fibers and at least one fibrous material different for kapok. Independent claims are included for the following. (1) A bedding cover (2) A blanket or pillow (3) Use of fabric (4) Bed linen



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### **US20080200087 - VENTILATION MATERIAL**

*CHEN SHI-CHUAN (TW) (Inventor)*

Published 2008-08-21

Priority date 2007-02-20 (US)

A ventilation structure as a material for manufacturing sheet of cloth, mat, footwear, mattress cover, etc. is disclosed that includes a lower layer of knitted fabric formed of a water-impermeable and water vapor-permeable fabric; an upper layer of knitted fabric formed of a water-impermeable and water vapor-permeable fabric; a plurality of support members formed between the upper and the lower layers; and a plurality of reticulated air ducts formed between the upper and the lower layers with the support members disposed thereamong. In one embodiment, the support members are shaped as triangle. Preferably, the support members are formed of plastic. In another embodiment, the hardness of a first portion of the support members is higher than that of the remaining portions of the support members. In yet another embodiment, the support members have a projecting portion contacting either the upper layer or the lower layer.

### **US20080201846 - BEDDING ARTICLE WITH CUPPED BAFFLES IN A PLURALITY OF SIDE-BY-SIDE CHANNELS**

*PACIFIC COAST FEATHER COMPANY*

Published 2008-08-28

Priority date 2007-02-09 (US)

The bedding article includes upper and lower fabric layers which are substantially identical in configuration and are secured to each other around the peripheries thereof. A plurality of channels are defined by channel baffle members which extend in a longitudinal direction of the bedding article. A plurality of curved, cup-like baffle elements are positioned in the channels, attached to the upper and lower fabric sections. The baffle members alternate in orientation, i.e. their direction of opening, along the length of the channel, wherein adjacent baffles which curve toward each other are spaced apart so as to permit fill to be blown into the channels and the volumes bounded by the baffle elements.

### **JP2008183165 - SHEET FOR MATTRESS**

*ASAHI JIGIYOU KK*

Published 2008-08-14

Priority date 2007-01-29 (JP)

**PROBLEM TO BE SOLVED:** To provide a sheet for a mattress which is excellent in fitness to the mattress even when a sheet main body is shrunk by cleaning, is easily inserted to an iron for business use further and improves the workability of ironing.

**SOLUTION:** The plane sheet for the mattress comprises: a sheet main body formed of one sheet of textile having an outer fabric part and a peripheral side part covering the upper surface part and both left and right side parts of the mattress; both end bag-like parts formed in a bag shape so as to cover the upper surface part, lower surface part and both left and right side parts of both ends in the longitudinal direction of the mattress, for which the opening edge part of the bag shape is formed of a knit material sewn to both ends in the longitudinal direction of the sheet main body; and a rectangular opening surrounded by the peripheral side part of the sheet main body and the lower surface part of both end bag-like parts. When the mattress is covered with the sheet main body and both end bag-like parts, tension is imparted to the sheet main body by stretchability that both end bag-like parts have.

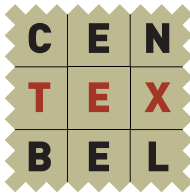
### **EP1946679 - MATTRESS AND UPHOLSTERY COVERS**

*CONTINENTAL TICKING GMBH*

Published 2008-07-23

Priority date 2007-01-18 (GB)

A cover for a mattress, cushion or similar upholstery item, comprises a cover panel having a central area of relatively inelastic material and a peripheral area of relatively elastic material. Thus conventional panel fabrics can be combined with elastic material such that the feel of the cover can be maintained whilst the panel can deflect in use to enhance comfort and can be kept taut and wrinkle-free when unused. A skirt of the cover has a higher elastic modulus relative to the cover panel elastic areas. This provides an "anchorage" against which the elastic and the interconnected relatively inelastic areas of the cover panel may be maintained in tension.



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**FR2911153 - TEXTILE SUBSTRATE CONTAINING THERMAL REGULATION COMPOSITION, FOR USE E.G. IN CLOTHING WITH TEMPERATURE REGULATING EFFECT, INCLUDES ISLETS OF MATERIAL FOR PROMOTING HEAT AND/OR MOISTURE TRANSFER**

LAINIERE DE PICARDIE BC SOC PA

Published 2008-07-11

Priority date 2007-01-10 (FR)

A fiber-containing textile substrate (A), incorporating a thermal regulation composition (I), also has 'islets', associated with the fibers and surrounded by (I), of material (II) for promoting the transfer of heat and/or moisture into (I). An independent claim is included for the production of (A), incorporating (I) and (II), where (I) is in the form of microcapsules (MC's) containing phase-change material (Ia), by: (1) preparing a formulation containing the MC's, comprising (Ia) in a shell of material (III) with groups reacting under ionizing radiation (IZR), and a crosslinker (IV) with two types of groups reacting under IZR; (2) applying (II) to at least one zone on the surface of (A) in the form of islets; (3) impregnating (A) with the MC formulation; and (4) irradiating with IZR to crosslink the MC's on (A) via the reactive groups.

**WO200886260 - STITCHBONDED FABRIC WITH A SLIT SUBSTRATE**

XYMID LLC

Published 2008-07-17

Priority date 2007-01-08 (US)

A stitchbonded fabric has a substrate material of uniform composition and physical properties and stitching threads stitched through and over the extent of the substrate in which the substrate has one or more linear slits defined by opposite facing lips that are unparted when the fabric is stitched. The fabric can be tensioned such that the lips part and thereby produce varied performance characteristics such as increased stretch and aesthetically pleasing effects as are useful in fabric utilities such as mattress cover skirts. The lips can pucker to give the fabric texture. The fabric can be extended and/or contracted laterally to further buckle out of plane. The puckering and buckling give the fabric additional functional properties such as dust-catching ability in cleaning wipe utilities.

**WO200885793 - STITCHBONDED FABRIC WITH A SUBSTRATE HAVING DIVERSE REGIONAL PROPERTIES**

XYMID LLC

Published 2008-07-17

Priority date 2007-01-08 (US)

A stitchbonded fabric is stitched continuously over its full extent and has a regionally segmented base layer in which one or more substrate physical properties in at least one region is substantially different from corresponding properties of another region. Representative physical properties that can differ among substrate regions include density, basis weight, chemical composition, thickness, porosity, permeability, elongation, elasticity, tensile strength, barrier properties, dyeability, abrasion resistance, and texture. In one aspect the base layer is discontinuous such that at least one region is devoid of all substrate material. The stitchbonded fabric with a discontinuous base layer advantageously can provide enhanced stretch capability to the overall fabric, especially in the cross direction and is particularly useful for stretchable skirts of mattress covers. A process for making the stitchbonded fabric is disclosed.

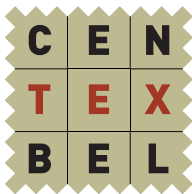
**DE102007001446 - EDDING E.G. FOR PRODUCING BEDDING, HAS COHERENT PADDING WHICH IS COVERED AT ITS TOP AND BOTTOM WITH TOP FABRIC AND LINING**

DIAMONA HERMANN KOCH GMBH & CO

Published 2008-07-10

Priority date 2007-01-03 (DE)

The bedding has a coherent padding which is covered at its top and bottom with a top fabric and a lining. The top fabric and the lining are distributed at the edges together with a finish part and arranged with a seam and stitched together. The top fabric and or the lining include a filling and the edge seam are arranged together. An independent claim is included for a method for the production of bedding.



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### **WO200879236 - ABRASION RESISTANT FIRE BLOCKING FABRIC**

*DU PONT*

Published 2008-07-03

Priority date 2006-12-22 (US)

An abrasion resistant nonwoven fabric for fire blocking an article such as a mattress, comprising a layer of fibers comprising a mixture of crimped, heat-resistant organic fibers and thermoplastic binder fibers compressed on a spunbonded thermoplastic nonwoven sheet; the layer of fibers being held in a compressed state and to the spunbonded sheet solely by the adhesion of the thermoplastic binder fibers to the heat-resistant organic fibers and to the spunbonded sheet; and wherein when the fabric is exposed to heat or flame, the fabric increases in thickness by at least one and one half times.

### **DE102006061004 - COVER FOR MATTRESS HAS FIRST FABRIC ON TOP SIDE AND SECOND FABRIC ON UNDERSIDE, BOTH BEING FREE OF THREADS**

*METZELER SCHAUM GMBH*

Published 2008-06-26

Priority date 2006-12-22 (DE)

The cover is for a mattress. It includes a foam material element with a top side and an underside. It has a first fabric on the top side and a second fabric on the underside, both fabrics being free of threads. A third fabric with ventilation holes may be applied to the first fabric or to the second fabric.

### **JP2008101295 - THIN WOVEN FABRIC**

*ASAHI KASEI FIBERS CORP*

Published 2008-05-01

Priority date 2006-10-19 (JP)

**PROBLEM TO BE SOLVED:** To provide a smooth and soft woven fabric that has sufficient tear strength in spite of a weight and thickness smaller than a woven fabric for sportswear and bedding side fabric obtained by a conventional technique.

**SOLUTION:** The thin woven fabric subjected to a silicone-based resin finishing is a woven fabric composed of a synthetic fiber multifilament, in which the synthetic fiber multifilament has a fineness of 1.5-40 dtex and the woven fabric has a weight of 1.5-60 g/m<sup>2</sup> and a tear strength of 8-20N.

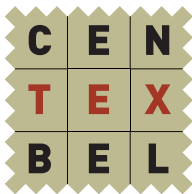
### **BE1017330 - A COVER MADE OF TEXTILE MATERIAL AND A METHOD FOR THE MANUFACTURE THEREOF**

*MONKS INTERNAT NV*

Published 2008-06-03

Priority date 2006-10-03 (BE)

The present invention relates to a method for manufacturing a cover made of textile material, such as mattress tick, in which a cover fabric (1) is woven on a weaving machine which has a top (2) and a bottom weaving layer (3) which are attached to one another in an edge zone (4) by weaving, in which a finishing layer (5a), (5b) is applied to the top side and/or to the bottom side of this cover fabric (1), and in which the cover fabric (1) is subsequently turned inside out. The finishing layer (5a), (5b) is, for example, a non-woven textile material or a synthetic material, such as for example latex, and can be applied by means of a laminating process. The present invention also relates to a cover made of textile material having a top (2) and a bottom weaving layer (3) which are attached to one another along at least one edge by weaving, which cover is provided with a finishing layer (5a), (5b) on the inside. Furthermore, the invention also relates to a mattress (10), a topper or a pillow provided with such a cover.



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### **US20080085651 - STITCHBONDED INHERENTLY FLAME RESISTANT FABRICS**

HANDERMANN ALAN C (US); MCKINNON BOB (US); LAND FRANK (US) (Inventors)

Published 2008-04-10

Priority date 2007-09-07 (US)

The invention relates to an inherently flame resistant (FR) stitchbonded nonwoven fabric for mattresses, boxsprings, upholstered furniture, top-of-the-bed, office panel, transportation seating or any end use application where a FR textile material is desired. Two of the preferred forms of this invention include: 100% cotton, 100% rayon, 100% lyocell, cotton/non-FR fiber blends, rayon/non-FR fiber blends or lyocell/non-FR fiber blend battings that are stitchbonded with flame resistant fiberglass core-spun yarn, 100% cotton, 100% rayon, 100% lyocell, cotton/non-FR fiber blends, rayon/non-FR fiber blends or lyocell/non-FR fiber blend battings that are stitchbonded with FR spun yarn.

### **JP2008061992 - POINTILLAGE BEDDING**

KOBAYASHI FUKUO (Inventor)

Published 2008-03-21

Priority date 2006-09-07 (JP)

**PROBLEM TO BE SOLVED:** To provide a thick mattress superior in the thermotherapeutic effect and the pointillage effect.

**SOLUTION:** This pointillage bedding has a surface layer part composed of four layers in total by superposing cloth 2 as a second layer by cloth of coating platinum fiber yarn-woven cloth with ceramic powder on an upper part of nonwoven fabric 1 as a first layer, superposing cotton 3 processed by kneading ceramics into polyester as a third layer on an upper part of the cloth 2 and further superposing surface side cloth 4 as a cloth fourth layer 4 of weaving fiber yarn processed by kneading ceramic power in the polyester on an upper part of the cotton 3, a reverse layer part composed of four layers in total by superposing cotton 6 processed by kneading Bitcho charcoal powder as a second layer on a upper part of cotton side cloth 5 as a first layer of the reverse layer part, superposing cotton 7 as a third layer on an upper part of the cotton as this second layer and superposing thin towel cloth 8 of absorbing the sweat and superior in gas permeability as a fourth layer on an upper part of the cotton 7, and high density hard recess-projection urethane 9 having a large number of recesses-projections interposed between the surface layer and reverse layer parts.

### **JP2008048713 - SHEET FOR EXTERMINATING MITE OF BEDDING**

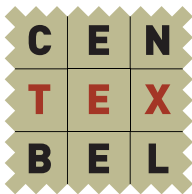
KANKYO CREATE KK

Published 2008-03-06

Priority date 2006-08-25 (JP)

**PROBLEM TO BE SOLVED:** To propose a tool enabling the extermination of mites by covering or wrapping a flat heater with bedding.

**SOLUTION:** The flat heater is obtained by coating and impregnating a special cloth in which ultrafine electroconductive wires are woven in both sides of a cotton cloth with a nano-carbon electroconductive coating, then laminating a polyethylene film for insulation and protection and further backing an aluminum sheet thereon for effectively utilizing heat efficiency. Since the whole surface is heated to about 50-70°C in a short time simultaneously with generation of a large quantity of far infrared ray, the mites growing in the beddings can be eliminated and exterminated in an operation time of about 20-30 min. Furthermore, the sheet can be utilized even as heating bedding in the winter season.



## PatentAlert 6-2009 - Bedding articles

### **JP2008048920 - BEDDING**

OSAKA GAS CHEM KK

Published 2008-03-06

Priority date 2006-08-24 (JP)

PROBLEM TO BE SOLVED: To provide a bedding capable of guiding a user into a deep sleep.

SOLUTION: This bedding used as a mattress is provided with a base material layer consisting of cotton, polyurethane molding and the like, a graphite layer disposed on whole one face of the base material layer, and a cloth surface layer covering the whole of the base material layer and the graphite layer. The graphite layer is made of nonwoven fabric formed by using fibrous graphite. The fibrous graphite used in the graphite layer is obtained by, for example, heating carbon fiber at 2,000°C or more and has high purity with carbon content of 99 wt.% or more.

### **US20080040855 - COVERING WITH ELASTOMERIC COMPONENT**

HO STANLEY (US) (Inventor)

Published 2008-02-21

Priority date 2006-08-21 (US)

A covering assembly including at least one flat sheet having a head end and a foot end, a covering having a foot end and a head end, an elastomeric component that is either woven into the covering or removably attached to the covering. The elastomeric component can be woven into the covering. Alternatively, the removably attached elastomeric component has at least one fastening means to attach itself to a covering and optionally to a first sheet. The elastomeric component can be either removably attached to a bedding assembly or affixed to a bedding assembly. On a preferred embodiment, the bedding assembly can be connected to a second sheet, preferably a fitted sheet, to tightly secure the bedding assembly and the sheet assembly to a bed while the elastomeric component provides additional space for a user. The bedding assembly can be removably attached to the second sheet or affixed to the second sheet.

### **EP2051607 - NANOFIBER ALLERGEN BARRIER FABRIC**

DU PONT

Published 2009-04-29

Priority date 2007-08-14 (WO)

An allergen-barrier fabric comprising at least one porous layer of polymeric nanofibers, a fabric layer superjacent and adhered to the nanofiber layer, and optionally a fabric layer subjacent and adhered to the nanofiber layer, wherein the superjacent and optional subjacent fabric layers are adhered to said nanofiber layer such that the allergen-barrier fabric has a mean flow pore size of between about 0.01  $\mu\text{m}$  and about 10  $\mu\text{m}$ , and a Frazier air permeability of at least about 1.5  $\text{m}^3/\text{min}/\text{m}^2$ .

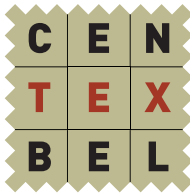
### **US20080032581 - DISPOSABLE TRAVEL LINEN**

AVERY DOROTHY MAE (US); AVERY MITCHELL KEVIN (US) (Inventors)

Published 2008-02-07

Priority date 2006-08-01 (US)

A fitted and flat sheet set (with matching pillow cases) that will come in king, queen, full and twin bed sizes. The sheet sets can be constructed from a variety of fabrics, such as cotton, polyester, satin, etc. There is a plastic or bio-fiber lining sewn between layers of the above mentioned fabric for protection. Each corner of the fitted sheet is rendered stretchable by an elastic strip, whereby the fitted sheet conforms snugly to the mattress but the flat sheet is tucked under the mattress.



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**US20080003194 - USE OF GUM ARABIC AND/OR MODIFIED GUM ARABIC SOLUTIONS TO REMOVE ODOR CAUSING MOLECULES**

*JOHNSON & SON INC SC*

Published 2008-01-03

Priority date 2007-06-20 (US)

An aqueous deodorizing composition is disclosed for removing malodors from the air as well as soft surfaces such as carpeting, upholstery, bedding, draperies, clothing and other fabrics. The aqueous solution includes gum arabic and/or modified gum arabic, such as by ion-exchange or chemical modification. The composition may also include an oxidant such as iodine to improve the malodor removal performance thereof. Optionally, the composition may further comprise one or more surfactants such as sodium lauryl sulfate.

**US20070283497 - MATTRESS COVER**

*PERFECT FIT IND INC*

Published 2007-12-13

Priority date 2007-06-12 (US)

A mattress cover that enhances an existing mattress is comprised of a skirt and a pad formed from textile material and dimensioned to cover a non-pillow top mattress. The pad is formed from textile material and includes a compressible fill material. The pad is for being positioned over the top of the mattress and is secured to the skirt. The pad includes a trough that extends around at least part of the outer periphery of the pad. The trough has a generally planar lower face that extends generally perpendicular to the skirt and includes an outward end secured to the skirt. The trough has a generally planar upper face connected to the lower face at an inward seam and angled from the lower face at an acute angle such that the trough is generally v-shaped in cross section.

**US20070283493 - FIRE BLOCKING REMOVABLE COVER**

*FREUDENBERG NONWOVENS LTD PART*

Published 2007-12-13

Priority date 2007-06-07 (US)

The present invention relates to a flame-retardant removable cover which may be applied to a mattress. The removable cover, when applied to mattress, may reduce the peak heat release rate and/or total energy released in accordance with 16 CFR 1633 testing protocols. The cover may comprise a non-woven material. The removable cover may also comprise a non-woven type construction and an elastomeric material. The removable cover may therefore be designed with respect to the different requirements of those mattresses to which it may be applied to assist in meeting open flame mattress flammability standards.

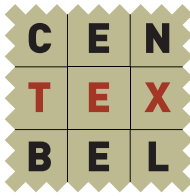
**WO2007143313 - FABRICS WITH SILVER-CONTAINING YARN FOR HEALTH CARE FACILITY ROOMS**

*LACE LASTICS COMPANY INC*

Published 2007-12-13

Priority date 2006-05-31 (US)

A portfolio of textile furnishings for a health care facility room includes a substantial array of such furnishings commonly used in health care facilities. Furnishings include silver containing yarns disposed within fabrics to provide a silver content effective to reduce microbial and allergenic effects and to reduce odor and infections.



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**DE102006023357 - SPACER FABRIC FOR MATTRESS, BED MATTRESS, PADDING MATERIAL FOR VEHICLE SEATS, HAS TWO PARALLEL FABRIC LAYERS ARRANGED TO EACH OTHER THAT ARE CONNECTED WITH EACH OTHER THROUGH SPACER THREADS THAT RUN BACK AND FORTH BETWEEN THE FABRIC LAYERS**

MUELLER TEXTIL GMBH

Published 2007-11-22

Priority date 2006-05-17 (DE)

The spacer fabric  $\mu$  for mattress, bed mattress, padding material for vehicle seats, comprises two parallel fabric layers  $\mu$  arranged to each other, which are connected with each other through spacer threads that run back and forth between the both fabric layers. The meshes of the fabric layers consist of multi-filament yarns or twines, which are moisture-retaining. The spacer threads consist of monofil core threads, which are wrapped or meshed with the multifilament yarns or twines. Independent claims are included for: (1) mattress; (2) bed mattress; and (3) padding material.

**DE202006007773 - MATTRESS COVER, HAS NON-INFLAMMABLE MATERIAL E.G. GLASS FILAMENT FABRIC, AND ZIPPER SEWED AT ONE OR MORE SIDES OF COVER, WHERE ZIPPER IS COVERED ON OUTER SIDE BY GLASS FILAMENT FABRIC**

WEBER GABRIELE (DE) (Inventor)

Published 2006-10-26

Priority date 2006-05-16 (DE)

The cover has a non-inflammable material e. g. glass filament fabric, and a zipper is sewed at one or more sides of the cover. The zipper is covered on an outer side by the glass filament fabric and a cover plate is provided at an upper part of the cover. A side of the upper part is so long and the cover plate is so large such that the entire zipper is covered in both width and height.

**DE202006007772 - MATTRESS PROTECTING COVER, HAS ROPE FABRIC SEWN AS PROTECTIVE COVER SUCH THAT MAIN JOINT OR ZIPPERS ARE NOT PROVIDED ON UPPER AND SIDE SURFACES, WHERE LOWER SURFACE IS PROVIDED SUCH THAT JOINT AND ZIPPERS ARE SET INWARD FROM BOUNDARY REGION**

WEBER GABRIELE (DE) (Inventor)

Published 2006-10-26

Priority date 2006-05-16 (DE)

The cover has a polyurethane coated rope fabric that is sewn as a protective cover for a mattress in such a manner that a main joint or zippers are not provided on an upper surface and at a side surface, where the zippers are needed for withdrawal of mattress. A lower surface is provided in such a manner that the joint and the zippers are set inward between 5 and 6 cm from a boundary region and a dart sits in corners.

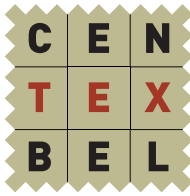
**US20070264893 - COMPOSITE UPHOLSTERY FABRIC PANELS WITH ENLARGED GRAPHITE INTUMESCENT PARTICLES**

PREC FABRICS GROUP INC

Published 2007-11-15

Priority date 2006-05-10 (US)

Fabric layers and composite articles that incorporate graphite-containing coatings that do not stain are provided. A fabric layer for use as a flame and heat blocking component of an upholstered article includes intumescent graphite particles that are configured to swell and char in the presence of flame so as to form a barrier to flame, hot gases and heat for a predetermined period of time. The graphite particles have a size greater than about 150 microns which prevents the particles from being drawn to a surface of an upholstered article during sewing and quilting operations.



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### **EP2019610 - MATTRESS WITH CROWNED PANEL**

DREAMWELL LTD

Published 2009-02-04

Priority date 2007-05-02 (WO)

Mattresses and improved fabric covers for providing mattresses that have smooth surfaces. Additionally, methods for manufacturing non-quilted mattress covers and for manufacturing mattresses employing non-quilted mattress covers. The systems and methods described herein include mattress panels that can be manufactured separate from the inner core construction, and laid over the inner core to be fastened in place as a sleeping surface for the mattress. Optionally, these mattress panels can include a layer of fire retardant material, that may be added as a layer of material or that may be incorporated into one or more of the layers, such as a filler layer, in the mattress panel.

### **JP2007296104 - WARMER**

TANAKKU KK

Published 2007-11-15

Priority date 2006-04-28 (JP)

**PROBLEM TO BE SOLVED:** To provide a warmer, lessening load on the body to facilitate movement, used lightly, and further warming the body to the inner part to further effectively keep the body warm.

**SOLUTION:** This warmer has a layer structure including a thermotherapy sheet made of non-woven fabric supporting charcoal fine particles such as bamboo charcoal powder and a flexible outer skin material covering both sides of the thermotherapy sheet. The outer skin material is a plane storing bag formed of a double sheet and a double cylindrical three-dimensional storing bag, and in the storing bag, that is, the thermotherapy sheet is inserted into the double sheet or between the inner cylinder and the outer cylinder of the double cylinder. The warmer can be applied to clothing, bedding, and footwear. The clothing includes all things put on the body such as a shawl, a leg warmer, an arm warmer, a headgear and gloves, as well as dresses.

### **JP2007289396 - CUSHIONING MATERIAL**

ASAHI KASEI FIBERS CORP

Published 2007-11-08

Priority date 2006-04-25 (JP)

**PROBLEM TO BE SOLVED:** To provide a cushioning material having a good appearance which is utilized especially for bedding such as a bed pad, a floor cushion, and a laying mat as the cushioning material for which the outer periphery of a three-dimensionally knitted article has been cover-processed with an edge section cover material, wherein the cushioning material can normally be washed by a washing machine for home use, can prevent the edge section from shape-collapsing after being dried and has a little appearance change, and can prevent the edge section from shape-collapsing after being dried even when a high-temperature washing is performed by a tumbler type washing machine, and has a little appearance change.

**SOLUTION:** A cushion member consists of lamination of one sheet or a plurality of sheets of the three-dimensionally knitted article consisting of two layers of front and rear knitted fabrics and a connecting yarn for connecting the two layers of the knitted fabrics. The outer periphery of the cushion member is covered with the edge section cover material for this cushioning material. A difference (X1) in washing shrinkage ratio at the time of washing at 40°C by a washing machine for home use is  $0 \pm 5.0$  for both in the vertical and lateral directions for the cushioning material.

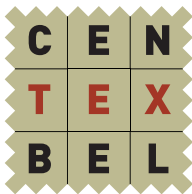
### **US7340788 - METHOD TO IMPROVE THE FIRMNESS OF A PILLOWTOP MATTRESS**

TRAUB CHRISTINE M (US) (Inventor)

Published 2008-03-11

Priority date 2006-04-18 (US)

A method for increasing the firmness of a pillowtop or any other soft mattress. The method includes providing a rectangular sheet of cotton fabric material having hook fasteners on one end and loop fasteners on an opposite end to attach the sheet of material around the mattress. The firmness of the mattress is increased by tightly wrapping the sheet of material around the mattress using the fasteners. The sheet of material is sized appropriately to fit entirely around the mattress with overlap. Preferably, the sheet of material is sized and manufactured for wrapping longitudinally around the mattress.



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### **US20070240262 - FITTED BLANKET**

*JOHNSON YVONNE (US); JOHNSON TUNISIA (US) (Inventors)*

Published 2007-10-18

Priority date 2006-04-12 (US)

A fitted blanket has a generally rectangular pocket member attached at its foot end to fit over the foot of the bed mattress. The pocket member is formed of a fabric, e.g., flannel, and has top, side, bottom and back panels, with the top panel having a length dimension of about twelve to twenty-four inches. The side panels have forward edges that extend diagonally from the bottom panel to the top panel. Elastic extends around the pocket member is joined to the blanket portion at a seam sewn across the front edge of the top panel. The deep pocket member of this design accommodates in comfort the feet of a sleeper in the bed and also resists being pulled or kicked off the bed.

### **DE102006017338 - BEDDING COVER E.G. BEDTICK, FOR COVERING E.G. HUMAN, HAS CERAMIC MATERIAL PROVIDED ON SIDE OF TEXTILE MATERIAL AS COATING, WHERE CERAMIC MATERIAL COVERS TEXTILE MATERIAL IN COATED RANGE OF SPECIFIC PERCENTAGE**

*SANDERS GMBH & CO KG GEB*

Published 2007-10-18

Priority date 2006-04-11 (DE)

The cover has a ceramic material provided on a side of a textile material as a coating, where the coating is not coated completely on the sides. The ceramic material exists in a regular or irregular sample. The sample is made of discrete units, where the units are overlapped. The ceramic material covers the textile material in the coated range to 30 to 60 percentage. The ceramic material covers a material, which can emit radiation within the remote infrared area. Independent claims are also included for the following: (1) a blanket or head pillow (2) a method for manufacturing a bedding cover.

### **EP2008498 - HEATABLE TEXTILE**

*BSH BOSCH SIEMENS HAUSGERAETE*

Published 2008-12-31

Priority date 2007-04-11 (WO)

The invention relates to a heatable textile, woven or closely woven from at least one thin wire, which comprises at least one fibre composed of plastic and/or from natural material, is coated with an electrically conductive material and/or is twisted with at least one electrically conductive fibre. The textile according to the invention is particularly suitable for ceiling heaters, heating cushions, mattresses, seat cushions, clothing elements such as jackets or T-shirts, foot warmers, comforter covers or other textiles for heating body parts. In this case, the heatable textile can preferably reach a temperature between 30 and 100 degrees Celsius, preferably between 36 and 65 degrees Celsius. In addition to the structure composed of one or more layers, the textile according to the invention can expediently also be combined with heat reflection sheets and/or cushioning means, depending on the intended purpose.

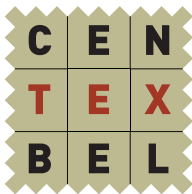
### **DE202006005864 - FOAM, STUFFING, MIXED-FIBRE FLEECE OR WOVEN FABRIC MADE FROM VEGETABLE PROTEIN STARTING MATERIAL, E.G. SOYA PROTEIN FIBRES, WITH ADDED KAPOK FIBRES, USED E.G. IN BEDDING, FURNITURE, CLOTHING, INSULATION AND COVERINGS**

*OBERSCHELP AXEL (DE) (Inventor)*

Published 2006-09-14

Priority date 2006-04-09 (DE)

Foam, stuffing and mixed-fibre fleece or woven fabric (I) made synthetically from vegetable protein starting materials (II) and used for the production of woven or non-woven stuffings and fabrics of all types, (e.g. for bedding, domestic textiles, upholstered furniture, geo-textiles, aircraft, cars (exterior and interior), outer clothing, insulation, seating, packaging and coverings), in which (I) is mixed with a proportion of kapok fibres. Independent claims are included for (1) products made from (I) with a microbial effect on spiders, insects, house dust mites, bacteria and fungi, which is declared as such (2) products made from (I) with an improved and balanced air-conditioning effect, better moisture management, a blotting paper action, good lying and sitting properties or a thermal resonance effect, which is/are declared as such.



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**JP2007270410 - FLAME-RETARDANT FABRIC FOR COVER**

KANEGAFUCHI CHEMICAL IND

Published 2007-10-18

Priority date 2006-03-31 (JP)

PROBLEM TO BE SOLVED: To provide a flame-retardant fabric for covers for use in upholstery cloths, mattresses, cushions, etc., which retains their design and comfortableness in use such as touch feeling and air permeability, while meeting flame retardancy, when combined with polyurethane foam as a cushioning material.

SOLUTION: The flame-retardant fabric for covers includes 25-75 wt.% of halogen-containing fibers containing a zinc stannate compound and 75-25 wt.% of at least one kind of wool fibers and cellulosic fibers but includes no antimony compound.

**JP2007268848 - METHOD OF MANUFACTURING PAPER OR FABRIC ATTACHED WITH VARIOUS POWDERY MATERIALS**

KANEYAMA INSATSU KK

Published 2007-10-18

Priority date 2006-03-31 (JP)

PROBLEM TO BE SOLVED: To provide a method of attaching a perfume to Japanese paper, synthetic paper, fabric or the like which is used for wall paper, pillowcases, bedding and the like giving off a fragrance for a long period of time and Japanese paper, synthetic paper, fabric or the like attached with the perfume using the method.

SOLUTION: The paper or the fabric attached with the perfume is obtained by attaching a base material mixed with various powdery materials (vegetative powder of wood, bamboo, mugwort, aloe or the like and mineral powder of charcoal, rocks or the like), the perfume and an adhesive to paper, synthetic paper or fabric.

**US20070220676 - BEDDING WITH IMPROVED FILL CHARACTERISTICS**

LAMSTEIN AARON (US); SONG WONJUNG (US); OTTENS TRISH (US) (Inventors)

Published 2007-09-27

Priority date 2006-03-22 (US)

A pet bed which is configured from an upper fabric layer and lower fabric layer which are joined at a peripheral edge. The upper and lower fabric layers define the shape of the bedding product wherein a portion of the peripheral edge is selectively closeable to provide an opening for filling the bedding product with a chopped memory foam fill material. A plurality of barriers extend proximate the opening to the length of the upper and lower fabric layers and join the upper and lower fabric layers by, for example, sewing the barriers to them. The barrier layers are of a width approximately equal to the thickness of the bedding product once filled with said chopped memory foam fill material substantially preventing fill material migration between sub volumes created by said barriers.

**JP2007229429 - BEDDING COVER**

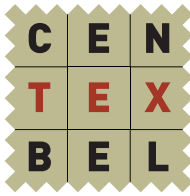
MATSUOKA MIHOKO (Inventor)

Published 2007-09-13

Priority date 2006-03-01 (JP)

PROBLEM TO BE SOLVED: To provide a bedding cover having a device capable of allowing bedding to be put into a cover by opening an opening/closing part so as to perform covering by putting the corners of the cover together with the bedding.

SOLUTION: When the bedding cover has a "square U" shape, connection components 5 are arranged at two places of one surface (between fabrics 1, 2 and between the fabrics 2, 3) and one place of a side surface (between the fabrics 2, 4) in the cover, so as to sew the circumference of the fabrics 1, 2, 3, 4. When the bedding cover has a "chevron" shape, the connection components 5 are arranged at two places of one surface (between the fabrics 6, 7 and between the fabrics 7, 8) in the cover, so as to sew the circumference of the fabrics 6, 7, 8, 9. When the bedding cover has an "L" shape, the connection components 5 are arranged in an L shape in one corner by leaving about vertically 30cm and horizontally 25cm in the fabrics 10, 11, so as to sew the circumference of the fabrics 10, 11.



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**DE202006003043 - UPHOLSTERED ELEMENT, E.G. A MATTRESS, HAS AN UPHOLSTERY CORE COVERED WITH KNITTED SPACER FABRIC, WITH A POROUS INTERLAYER WHICH IS PERMEABLE TO AIR AND WATER VAPOUR BETWEEN CORE AND FABRIC**

*BODET & HORST GMBH & CO KG*

Published 2006-06-08

Priority date 2006-02-25 (DE)

An upholstered element with an upholstery core covered with a layer of knitted spacer fabric in which, outside the core, there is an essentially closed layer with small openings which is permeable to air and water vapour. An independent claim is included for a mattress in the form of an upholstered element as above.

**JP2007224441 - FLEXIBLE THREE-DIMENSIONAL KNITTED FABRIC**

*ASAHI KASEI FIBERS CORP*

Published 2007-09-06

Priority date 2006-02-22 (JP)

**PROBLEM TO BE SOLVED:** To obtain a three-dimensional knitted fabric that has, in the case of use as a core material of a bedding, excellent cushioning properties and repulsion, folding properties and storing property of bedding, improved handleability of washing, etc., and has, especially in the case of use as a core material of a top bedding, excellent fitness of top bedding to the body and exceedingly high flexibility to bending.

**SOLUTION:** The three-dimensional knitted fabric comprises two front and back layers of knitted fabrics and a connection yarn for connecting the knitted fabrics and is obtained by knitting gray fabrics of three-dimensional knitted fabric, partially cutting at least one side knitted fabric of two front and back layers of knitted fabrics in a finishing process. The length of the cut part is  $\geq 1\text{m}$  and  $< 90\text{m}$  per  $\text{m}^2$  of the three-dimensional knitted fabric.

**EP1978846 - COVERINGS FOR VISCOELASTIC FOAM MATTRESSES**

*MMI IPCO LLC*

Published 2008-10-15

Priority date 2007-01-24 (WO)

Covers for mattresses having a reclining surface of viscoelastic foam have a fabric body with a first surface disposed in engagement with the reclining surface; an opposite, second surface disposed for engagement by a person reclining upon the cover; and at least one air flow region defined by the fabric body for enhanced circulation of air between the reclining surface of viscoelastic foam and an opposed skin surface of the person reclining upon the cover.

**US20070174963 - FITTED TOP SHEET**

*HOWARD BOBBIE (US) (Inventor)*

Published 2007-08-02

Priority date 2007-01-26 (US)

A sheet includes a top and a bottom surface. The sheet includes a head and foot end opposing the head end, the foot end including a first and second corner and at least one length of a stretchable material extending to encompass the first corner and second corner. Additionally, the sheet includes a mattress edge defying a first leg of a tapered portion, the first leg including a first attached length and a first unattached length. A second leg of the tapered section extends from the upper end at a non-right angle and includes a second attached length and a second unattached length. The tapered portion overhangs at least a portion of the length of stretchable material when the sheet of fabric is deployed on a mattress.