

Patent alert May 2024

Oeko-Tex: when innovation meets sustainability

This month's selection in brief

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Fitted sheet for covering the top and side faces of a rectangular mattress and method for its manufacture

Patent number: EP3884813

Publication date: 2021-09-29

Applicant(s): DE WITTE LIETAER INT TEXTILES NV

Inventor(s): DELOBELLE JAAK

Summary

The present invention relates to a fitted sheet for covering the top and the side faces of a rectangular mattress, made of a rectangular piece of fabric, the fitted sheet comprising a head end and a foot end, the rectangular piece of fabric is sewn together at two corners at the foot end to form mattress corner enveloping pockets, the pockets comprise an elastic band and the rectangular piece of fabric at the head end is partially folded double in the direction of the foot end, the double folded portion being sewn together to form a mattress head enveloping pocket. The invention also relates to a method for manufacturing a fitted sheet for covering the top face and side faces of a rectangular mattress.

Figure 1 shows a schematic representation of a rectangular piece of fabric for processing into a fitted sheet according to an embodiment of the present invention, with the main folding and cutting lines indicated thereon.

Figure 2 shows a bottom view of a fitted sheet according to an embodiment of the present invention.

Fig. 1

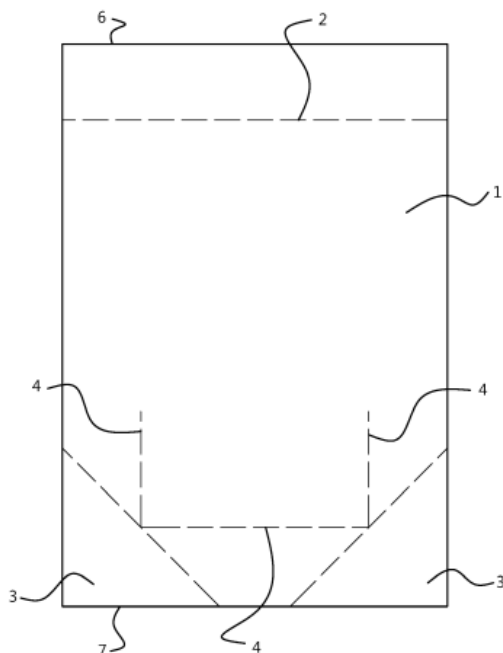
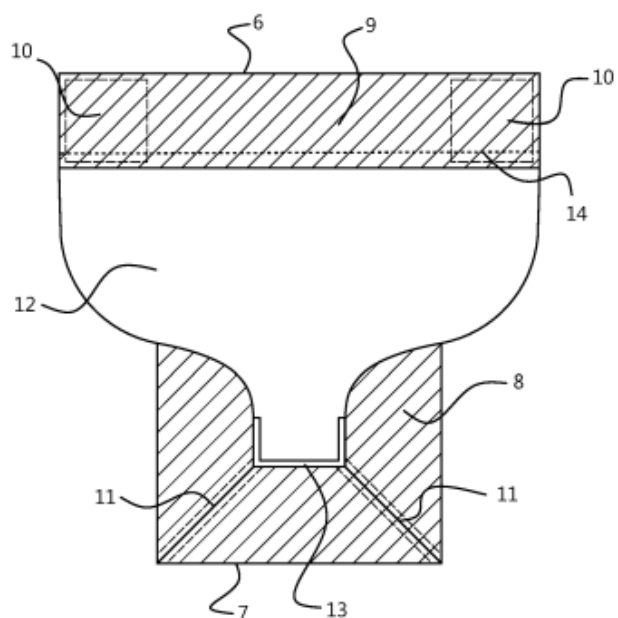


Fig. 2



Flame retardant fabric comprising cotton alternative

Patent number: WO2022/263615

Publication date: 2022-12-22

Applicant(s): TEN CATE PROTECT BV

Inventor(s): KARKDIJK SIMONE CHRISTINA FREDERIQUE; VAN RIJN ANDRÉ AELREDUS LAURENTIUS; VAN DIJK GERRIT BEERT

Summary

The present invention relates to a heat and flame retardant fabric as well as a method of making the same. The fabric comprises a cellulose-based cotton alternative having heat and flame retardant properties. The present disclosure relates to a flame retardant (FR) treated fabric, comprising yarns formed from a mixture of natural and/or synthetic fibres, the fabric further comprising FR treated lyocell fibres, wherein the FR treatment is a non-cellulose-reactive FR treatment and the FR treated lyocell fibres are rendered low-fibrillating e.g. whereby at least some of the hydroxyl groups are cross-linked with a reactant resin.

Test	Unit	Standard FR fabric	Modac/Tence I™	Improved FR fabric
Composition by wt %		74/25/1% Co/Pes/AS	54/45/1% PPAN/CV/AS	50/30/19/1% Co/CV/rPes/AS
Construction		Twill 2/1 S	Twill 2/1 Z	Twill 2/1 S
Finish		FR-treated	Inherently FR	FR-treated

Weight	g/m ²	320	300	320
Pilling	min.	4-5	4	4
Tensile strength	N	1400 x 650	950 x 800	1300 x 650
Tear strength	N	23 x 20	22 x 22	30 x 25
Ignition to surface	sec	Pass	Pass	Pass
Ignition to edge	sec	Pass	Pass	Pass

Tile and tiling system

Patent number: WO2023/105393

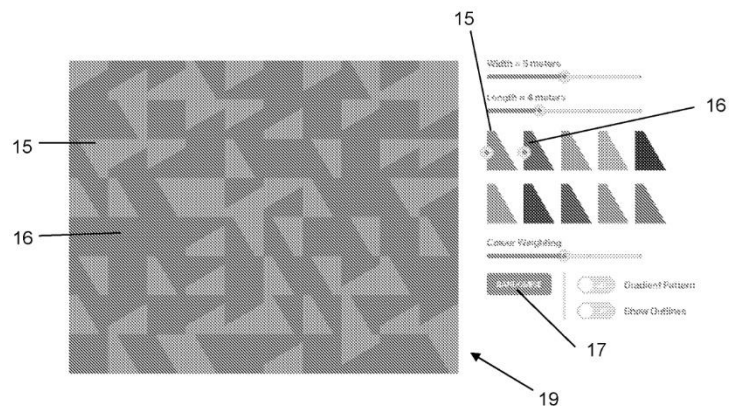
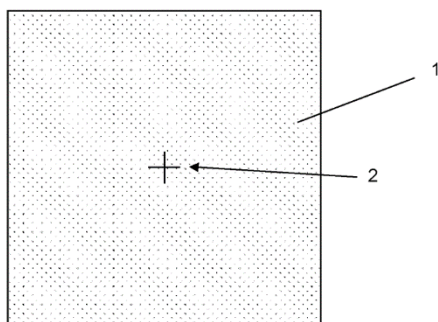
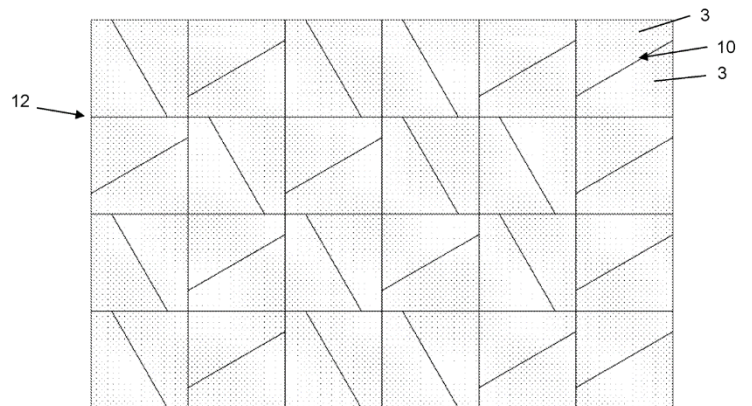
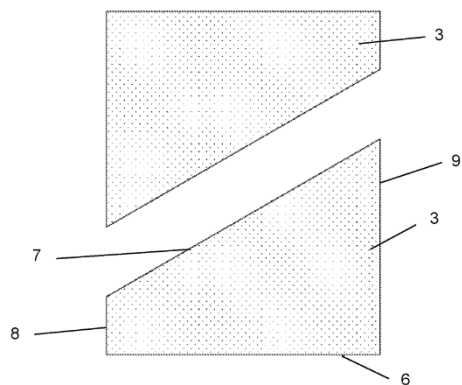
Publication date: 2023-06-15

Applicant(s): BELGOTEX FLOORCOVERINGS (PTY) LTD T/A BELGOTEX FLOORS

Inventor(s): ROOKE GAVIN ALEXANDER

Summary

There is disclosed a tile having a right trapezoid shape including two non-parallel legs comprising a short leg and a long leg, and two parallel bases comprising a short base and long base; with the two parallel bases each extending at a right angle from the short leg, and the long leg connecting the ends of the two parallel bases distal from the short leg, with the long leg being orientated at an offset angle between but not including 0° and 45° relative to the short leg.



Laminate for an absorbent article, absorbent article comprising said laminate and process for making such laminate

Patent number: EP4082495

Publication date: 2022-11-02

Applicant(s): ONTEX BV; ONTEX GROUP NV

Inventor(s): HEEGE THOMAS; IFFLAND DIRK; LAMBERTZ CHRISTINA; GRANADO MARTÍN; WEBER AINAS

Summary

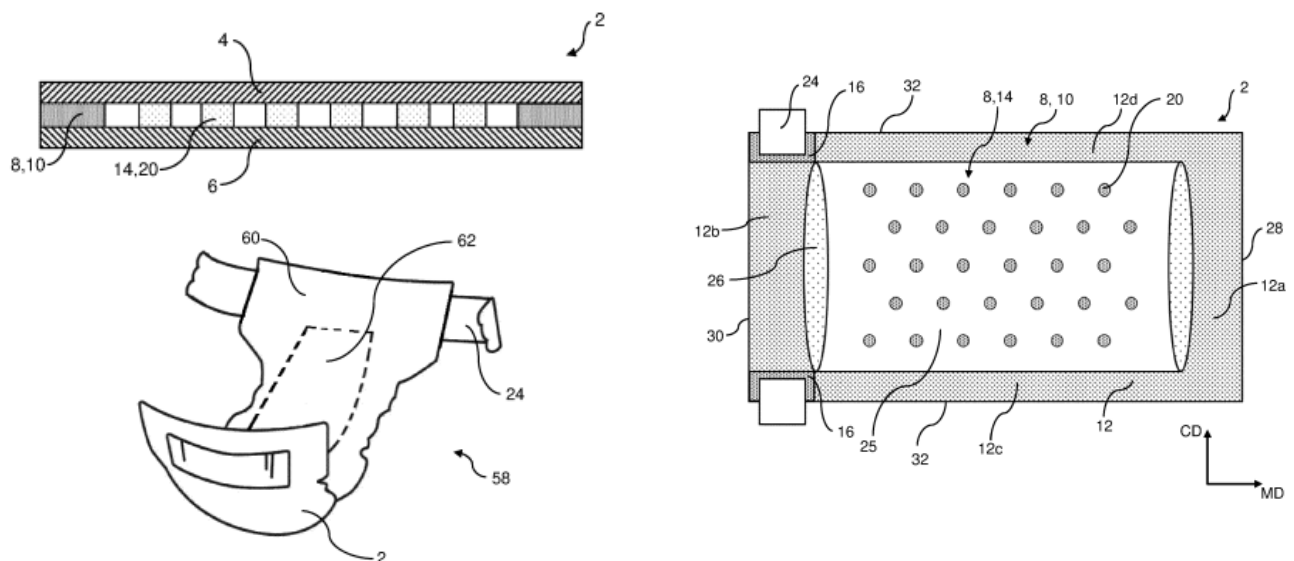
The current invention concerns a laminate (2) for an absorbent article, preferably to be used as the backsheet of said absorbent article, said laminate (2) comprising:

- a first layer (4) comprising a fibrous material such as a nonwoven material;
- a second layer (6) comprising a film;
- a third layer (8) comprising an adhesive;

the third layer (8) being arranged between the first (4) and second (6) layer; wherein the adhesive in the third layer (8) is applied in a pattern, said pattern comprising:

- a first sub-pattern (10) comprising a frame (12) following the perimeter of the laminate (2) and defining an inner surface, said first sub-pattern (10) comprising a first amount of adhesive;
- a second sub-pattern (14) arranged within the inner surface of the frame (12), said second sub-pattern (14) comprising a second amount of adhesive, the second amount of adhesive being less than the first amount of adhesive.

The invention also concerns an absorbent article comprising such laminate and a process for manufacturing such laminate.



Cleanroom coverall

Patent number: EP4059369

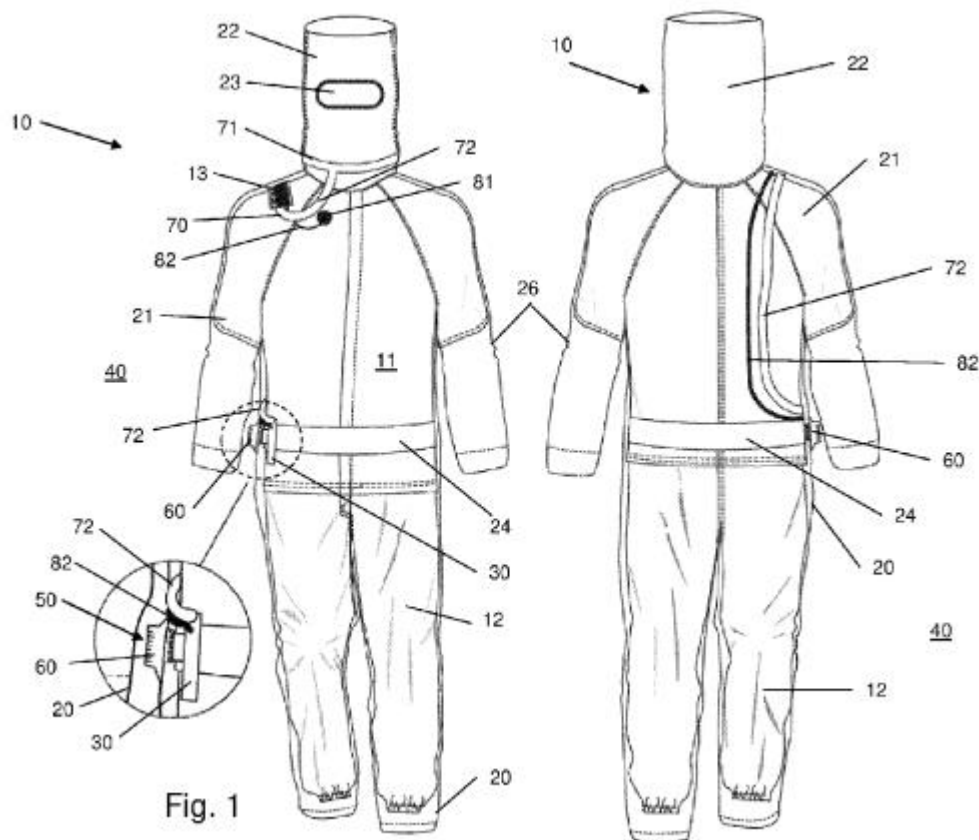
Publication date: 2022-09-21

Applicant(s): ALSICO HIGH TECH

Inventor(s): SIAU GAUTHIER

Summary

According to the invention, a cleanroom coverall is provided. The cleanroom coverall comprises a coverall suit and a ventilator positioned inside the coverall suit. The ventilator is fluidly connected to the ambient of the coverall, such that between the ambient of the coverall suit and the ventilator, a one-way valve is present, which one-way valve opens when the ventilator is active.



Process for manufacturing a nonwoven sheet material having an impermeable layer on one side and an anti-slip coating on the other side

Patent number: EP3721003

Publication date: 2020-10-14

Applicant(s): TWE MEULEBEKE

Inventor(s): DEWITTE GREET; MICHIELS DANY; ROSTER DOMINIK

Summary

The process comprises the steps of: carding (2) fibers (1) with a common general orientation and forming a web; bonding (4) the fibers into a nonwoven sheet material; applying (7) an anti-slip coating onto one surface of the material; applying a polymer onto the second surface of the nonwoven material and maintaining the orientation of the fibers over the whole process.

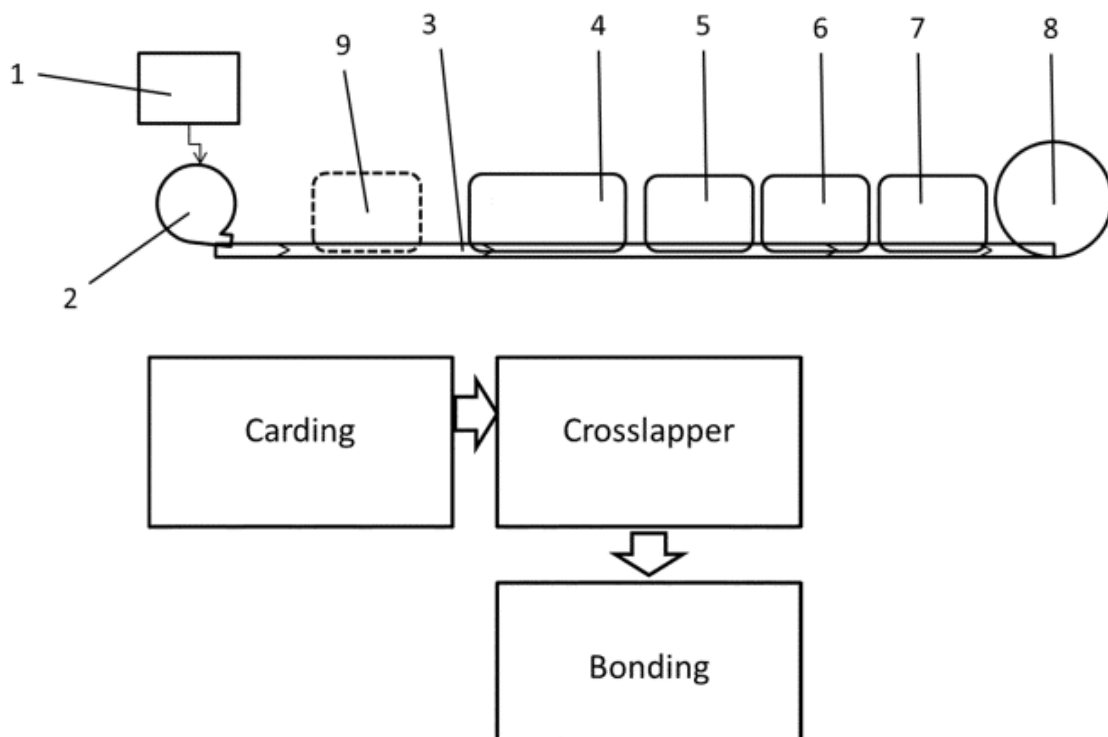


Figure 1

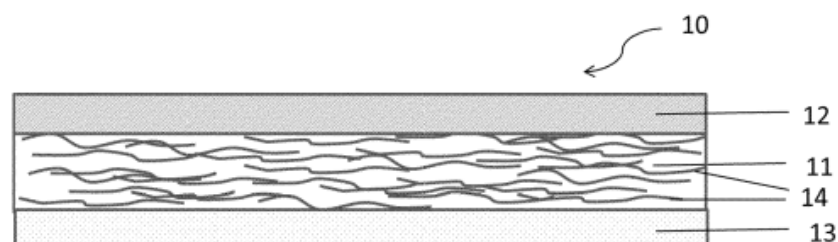


Figure 3

Compression garment

Patent number: BE1027457

Publication date: 2021-02-16

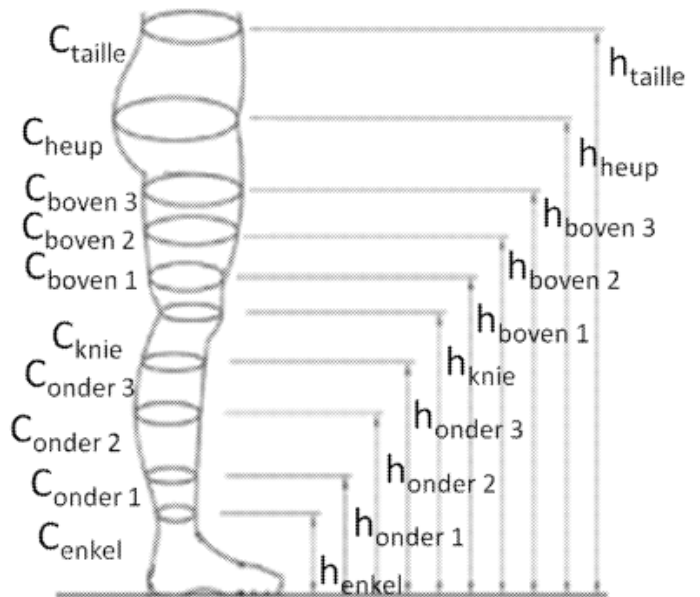
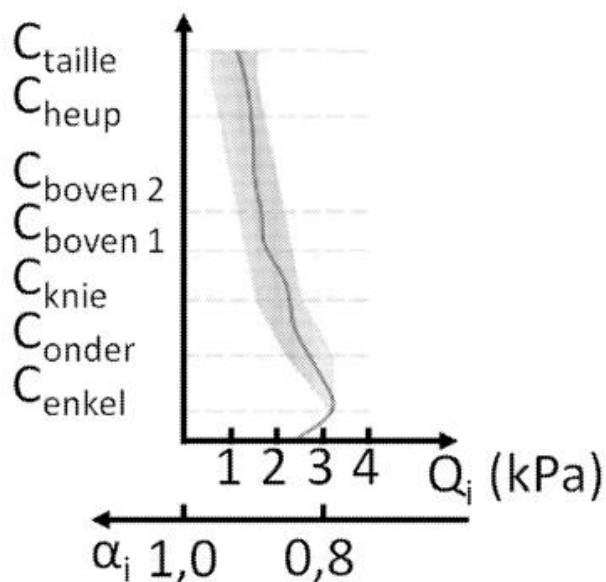
Applicant(s): LIEBAERT MARCEL NV

Inventor(s): REGELBRUGGE STEVEN

Summary

The invention relates to a method of making a garment for covering a body part, the garment being adapted to be worn against the skin of the body part, the method comprising the steps of:

- locating on the body part to be covered or on a model of the body part to be coated, of an n number of sections C_i , where i is a natural number and varies from 1 to n ;
- determining each body circumference OL_i of the body part along each section C_i ;
- designing a pattern for the garment based on the location of the sections C_i and a reduced pattern circumference OPI for each section C_i ; where for each $OPI = \alpha_i * OL_i$, and where α_i depends on the location of the slice according to a compression profile; and,
- making said garment from unique textile according to the pattern.



Method of mechanical recycling of fibers from used clothing, preferably working clothing

Patent number: BE1030062

Publication date: 2023-07-14

Applicant(s): UTEXBEL NV

Inventor(s): DERYCKE JEAN-LUC

Summary

This invention relates to a process for recycling used (working) polyester/cotton-based garments into yarns capable of forming fabrics or knitting, whereby the process involves the following steps:

- sorting the used garments by color and removing undesirable materials into a selected stream of textile materials;
- unraveling the selected stream of textile materials into a distributed fiber fraction containing at least 60% polyester;
- mixing the unraveled fiber fraction with a fiber fraction containing at most 40% of newly produced cotton fibers, up to a mixing fraction;
- spinning the mixing fraction into the mixing fraction a weaving or knitting yarn.