Laser finishing method for providing a finishing pattern on a fabric

Patent # EP3754101

Publication date: 2020-12-23

Applicant(s): SEI

Inventor: FUSTINONI ETTORE

Abstract

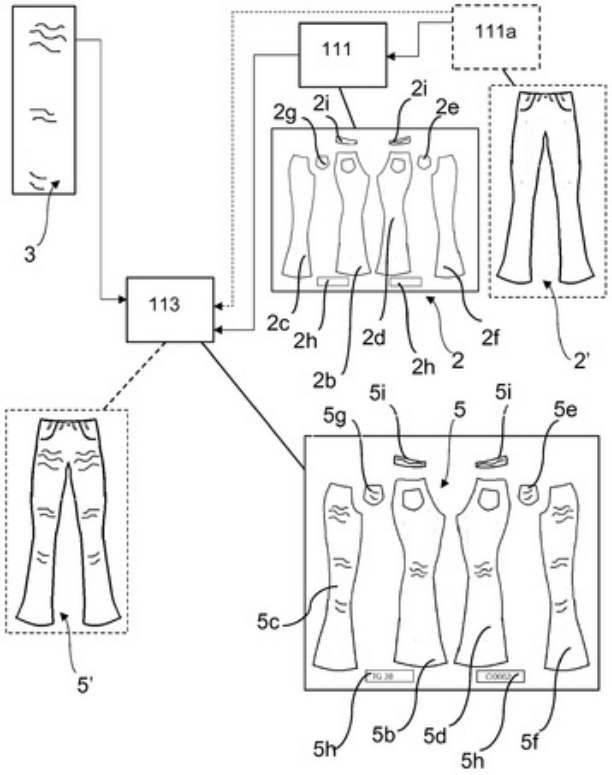


Figure 1a

It is disclosed a method for providing a finishing pattern (3) on a fabric (20) by a laser apparatus (1) comprising at least one laser source (10) generating an output laser beam (11) and moving means (12) for said laser beam and a control unit (200), the fabric (20) being suitable to be used for assembling an article, preferably a clothing article (20a), the method comprising the steps of providing at least one predetermined finishing pattern (3, 3', 3", 3"') to be scribed on said fabric (20);

the step of providing an input model (2, 2') of at least one portion of the article (20a) to be scribed with said predetermined finishing pattern (3), said model (2) comprising at least one portion or surface (2b - 2i) corresponding to a portion or surface (20b - 20i) of the article (20a) to be scribed; the step of combining said predetermined finishing pattern (3, 3', 3", 3"') to be scribed on said fabric (20) and said input model (2, 2') of the article (2b - 2i) to be scribed, in an output model (5, 5') of at least one scribed portion of said article (20a), said output model comprising at least one scribed portion or surface (5b - 5i) corresponding to a portion (20b - 20i) of the article (20a) scribed with the predetermined finishing pattern (3, 3', 3", 3"');

the step of providing command instructions (100) for operating said laser apparatus (1) for scribing said predetermined finishing pattern (3, 3', 3", 3"') on said fabric (20) according to said output model (5, 5') and operating said laser source (10) and said moving means (12) for generating said output laser beam (11) for scribing lines and/or dots (13) forming the predetermined finishing pattern (3, 3', 3", 3"') on said fabric (20) according to said command instructions (100).

A process of textile dyeing and dyed textiles

Patent # EP3628773

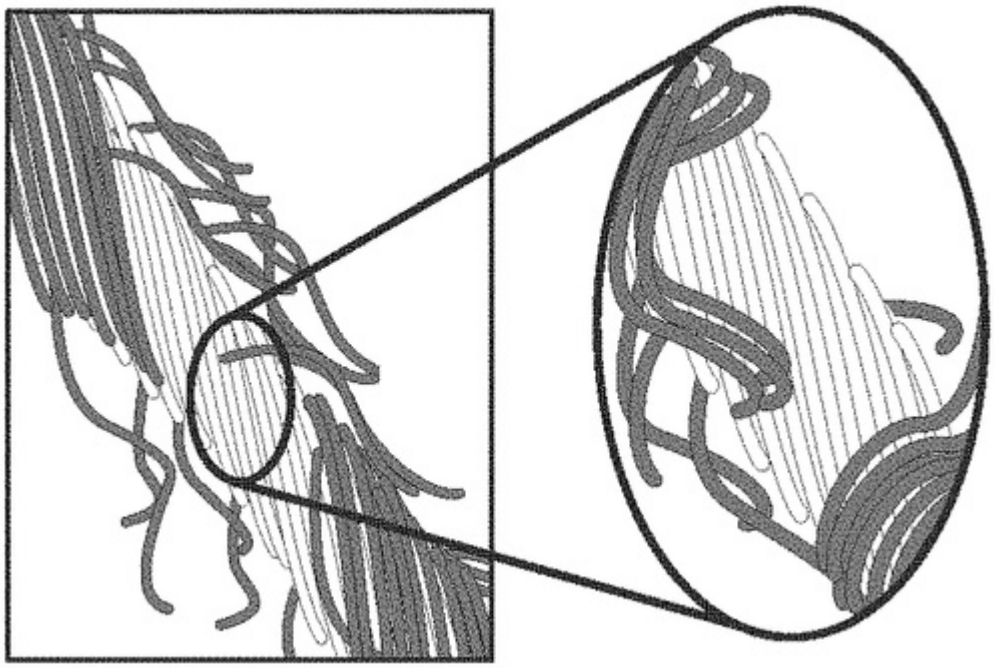
Publication date: 2020-02-04

Applicant(s): SANKO TEKSTIL ISLETMELERI SAN VE TIC

Inventor: COBANOGLU OZGUR, ERYILMAZ JITKA, IYIDOGAN DENIZ, KAPLAN GOKHAN, ZENGI LEYLA, AKDAG AYBIGE, HAMITBEYLI AGAMIRZA

Abstract

A textile is dyed by treating the textile with a composition containing 2D nano and/or microparticles of carbon and by dyeing the textile with a dye that is different from said carbon particles.



Method to produce cut resistant fabric and cut resistant fabric

Patent # EP3674652

Publication date: 2020-01-24

Applicant(s): CONCORDIA TEXTILES

Inventor: TUYTENS MANU, BAEKELANDT CARL, INGHELBRECHT KURT

Abstract

The current invention concerns a method for manufacturing a cut resistant fabric comprising supplying a first yarn, a second yarn and a third yarn to a knitting machine for forming a fabric, wherein said first yarn is polyester or polyamide yarn with a thickness of 75-250 dtex, wherein said second yarn is polyethylene yarnwith a thickness of 100-250 dtex and wherein said third yarn is elastane yarn with a thickness of 33-100 dtex, forming the cut-resistant fabric from the first yarn, the second yarn and the third yarn supplied as a fine rib piqué knit, and finishing the cut-resistant fabric in a heat treatment step for stabilizing the cut resistant fabric.

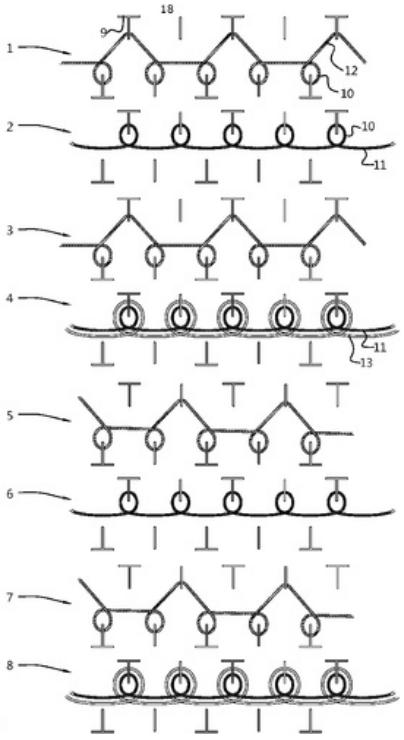


FIG. 1

Method for creating a woven fabric with artificial and natural fibres, plastic to the touch, glossy and scented

Patent # WO2020/109942

Publication date: 2020-05-30

Applicant(s): BRUNELLO

Inventor: GABRI ELISABETTA

Abstract

A method for making a woven fabric with artificial and natural fibres which is plastic to the touch, has glossy appearance and is scented, comprising operations in chronological order, a first weaving operation by means of a loom and a Jacquard-type textile machine producing a loom-state woven fabric with natural and artificial fibres comprising a multiplicity of weaves between warp and weft, said loom-state woven fabric with artificial and natural fibres comprising cotton fibres and cupro fibres (Bemberg™), a second ennobling operation that comprises, in chronological order, a first purging stage, a second dyeing stage, a third drying stage and a fourth finishing stage.

Fungal textile materials and leather analogs

Patent # US20200399824

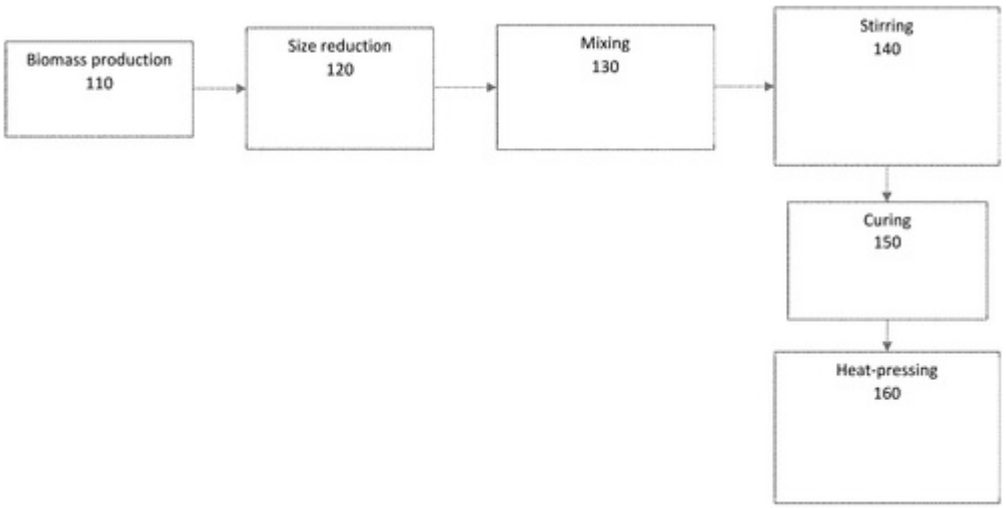
Publication date: 2020-12-24

Applicant(s): FYNDER GROUP

Inventor: Stewart Brendan Allen, Alegria Larry Andrew, Totman Ryan Jacob, Avniel Yuval Charles

Abstract

Textile compositions comprising at least one filamentous fungus are disclosed, as are methods for making and using such textile compositions. Embodiments of the textile compositions generally include at least one of a plasticizer, a polymer, and a crosslinker, in addition to the filamentous fungus. The disclosed textile compositions are particularly useful as analogs or substitutes for conventional textile compositions, including but not limited to leather.



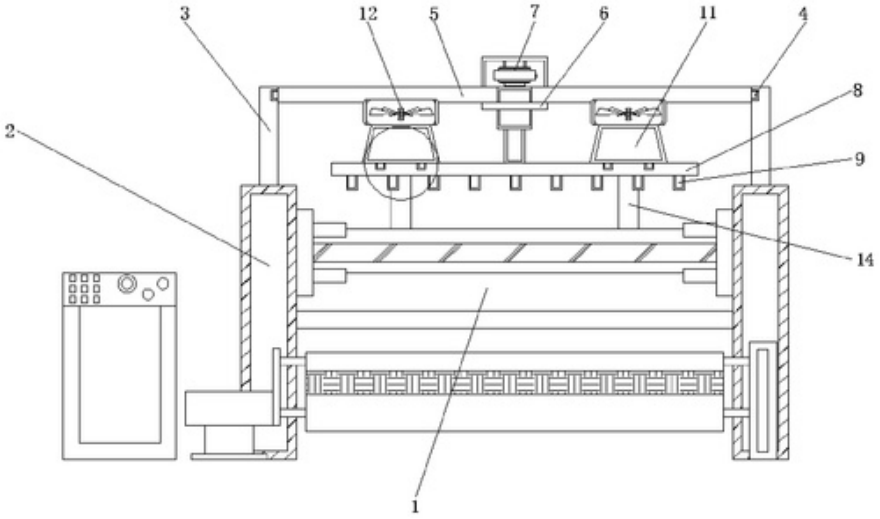
A textile finish having a function for cleaning textile waste yarn

Patent # DE212020000204

Publication date: 2020-11-19

Applicant(s): SUZHOU FIRE TREE TEXTILE TECHNOLOGY

Abstract



A textile finish having a function for cleaning textile waste yarn, comprising a textile finish body (1), characterized in that one side of the textile finish body (1) is provided with a support column (2) and the upper side of the support column (2) is connected to a holder (3), wherein the inner wall of the holder (3) is connected to a first sliding block (4), wherein the outer wall of the first sliding block (4) is connected to a movable rod (5), wherein the bottom of the movable rod (5) is provided with a casing tube (6), and the inner wall of the casing tube (6) is connected to a first electrical push rod (7), wherein the bottom of the first electrical push rod (7) is connected to a connecting rod (8), wherein the connecting rod (8) is connected to an adsorption tube (9), wherein the inner wall of the connecting rod (8) is connected to a clamping block (10) and the outer wall of the clamping block (10) is connected to a dust extraction cover (11), wherein a vacuum fan (12) is arranged above the dust extraction cover (11), wherein the inner wall of the dust extraction cover (11) is connected to a connecting block (13), wherein the lower part of the connecting block (13) is connected to a hose (14), the lower end of the hose (14) being connected to a collecting box (15), the inner wall of the collecting box (15) being connected to a second sliding block (16), the outer wall of the second sliding block (16) being connected to a collecting tray (17), one side of the movable rod (5) being connected to a second electric push rod (18).

Ski clothing with anti-cut characteristics and related fabric

Patent # WO2020/157638

Publication date: 2020-08-06

Applicant(s): CONFSPORT UNIPERSONALE

Inventor: OLIVETTO ALBERTO

Abstract

The invention relates to a fabric with anti-cut characteristics, in particular with a cut resistance level 3 or higher according to EN 388: 2016, which comprises: (a) a PE-UHMW ultra high molecular weight polyethylene yarn; (b) a thermal polymer yarn, such as polyester or polypropylene; and (c) a yam of an elastomer. The three yarns are intertwined between them with a double warp and simple weft circular knit, and namely made with feeds of polyethylene yarn and the same number of thermal polymer yarn feeds between which the elastomer yam is inserted internally with a thread guide between the needles creating a double-face fabric. Particular titres, degrees of twisting and finishing processes optimize the anti-cut characteristics. The invention also relates to skiwear (1) produced with the fabric and a process for the production of the fabric.

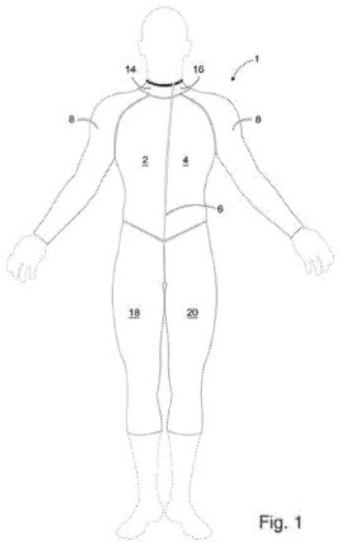


Fig. 1

Flame retardant aid, flame retarding agent composition, and method for producing flame-retardant fiber fabric

Patent # US20200332131

Publication date: 2020-10-22

Applicant(s): NICCA CHEMICAL

Inventor: SUESADA KIMIYUKI

Abstract

A flame retardant aid includes an amphoteric polymer compound having at least one of a specific cationic unit such as allylamine, and an anionic unit such as maleic acid, and a flame retarding agent composition including the flame retardant aid. A method of producing a flame-retardant fiber fabric includes treating a polyester fiber fabric using a flame retardant aid including a flame retardant component and the above amphoteric polymer compound, and drying the polyester fiber fabric.