

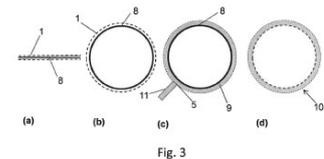
## EP3178643 - Method of manufacturing a composite structure including a textile fabric assembly

DANMARKS TEKNISKE UNIVERSITET

Published 2017-06-14

The invention relates to a textile fabric assembly (1) comprising at least two textile layers (2).

The textile layers (2) are joined at a plurality of points (3) and/or along a plurality of lines (6) so that they form inner and outer walls, respectively.



The invention also relates to a method of manufacturing a composite structure (10).

The method may comprise providing a form (8) that has a shape corresponding to a desired shape of an internal cavity in the composite structure (10) to be manufactured.

The textile fabric assembly (1) is arranged around the form (8), and a curable material (9) is filled into the at least one inner space (4) between the textile layers (2).

The form (8) may be inflatable.

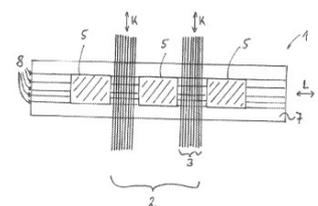
Alternatively, the method may comprise arranging the textile fabric assembly (1) around an initial structure and/or mechanically fastened to a surface of an initial structure to be reinforced and then filling it with a curable material (9).

## EP2954141 - Elastic shading textile comprising photovoltaic elements, and corresponding multiple glazing

PENN TEXTILE SOLUTIONS

Published 2015-12-16

A shading textile is characterized in that it comprises a plurality of strip-shaped photovoltaic lamellas which, aligned next to one another or spaced apart from one another in their longitudinal direction, form a continuous product by means of a yarn system, wherein the yarn system is designed to be elastic in at least one direction, so that by tensioning the shading textile, a spacing between adjacent photovoltaic elements can be varied perpendicular to the longitudinal direction.



## EP3147393 - Textile reinforcement using yarn and method for preparing a yarn

DRESDEN UNIVERSITY OF TECHNOLOGY

Published 2017-03-29

The invention relates to a method for preparing a yarn, in particular a multifilament yarn, for use as a textile reinforcement in a matrix material, in particular a mineral matrix material, a textile reinforcement and a component comprising this reinforcement.

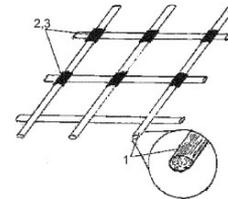


Fig. 1

The object of the invention is to improve the wettability of multifilament yarns, especially for aqueous mineral coatings. To the solution, the surface of the yarn is modified by means of a plasma-chemical and / or plasmaphysical process in such a way that the wettability is at least improved by the resulting modification.

## EP3052698 - PvdF textile article

ARKEMA

Published 2016-08-10

The present invention relates to an architectural textile article or protective tarpaulin article based on polyvinylidene fluoride (PVDF), said article comprising a woven reinforcement and a coating.

More specifically, the invention relates to a textile article comprising a layer of woven fabric made of PVDF homopolymer fibers, said layer having a first face and a second face, said layer being coated on at least one of its faces thereof with a coating comprising a copolymer of vinylidene fluoride (VDF) and of a fluorinated comonomer.

**FR3039577 - Composite and proceeded system of consolidation in particular of works out of reinforced concrete or masonry stamps setting or hardened and roasts textile reinforcement constituting this system**

*PAREXGROUP*

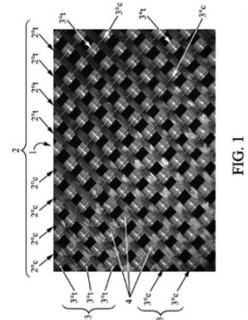
Published 2017-02-03

The invention concerns a composite system for reinforcing, in particular, structures made from reinforced concrete or masonry comprising a curable or cured matrix and a textile reinforcement grid, and said two elements taken as such.

The aim of the invention is for this system to make it possible to produce a cured composite structure having improved mechanical properties, both in the short term and in the long term (e.g. flexing behaviour, hardness, bending/compression resistance, durability, cohesion).

This aim is achieved by the system of the invention in which the grid comprises at least one layer formed: - both from a framework consisting of flat warp yarns and weft yarns; - and from a network binding the framework; characterised in that the binding network is such that it ensures the geometric regularity and dimensional stability of the meshes of the framework, before the grid is applied to the structure to be reinforced.

The invention also concerns a method for reinforcing, in particular, structures made from reinforced concrete or masonry, the composite structure obtained from this method, the dry and wet formulations of the curable matrix, and consolidated structures, in particular made from reinforced concrete or masonry.



**EP2941515 - Prefabricated concrete element having textile reinforcement and retainers and method for generating same**

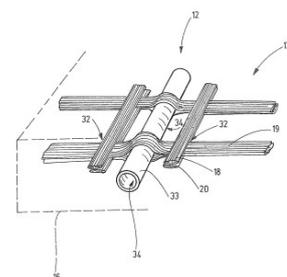
*GROZ BECKERT*

Published 2015-11-11

A prefabricated concrete element (10) having a textile reinforcement (17) comprising fastening elements (12, 13, 14, 15), which are connected directly to the reinforcement (17).

The fastening elements (12 to 15) can have a bent form and pass through a flat side of the prefabricated concrete element (10).

The fastening elements can also have a straight or elongated form and emerge on narrow sides of a plate-shaped prefabricated concrete element (10).



Because of the direct connection between the fastening element (12 to 15) and the reinforcement (17), the prefabricated concrete element can have an especially extensive and thin form and thus can be used as a façade panel.

**FR3044026 - Article including a textile layer plastifiée and métallisée, in particular intended for solar, and proceeding protection of grafting of a metal layer for obtaining of the aforesaid article**

*MERMET*

Published 2017-05-26

The present invention relates to an item, in particular for sun protection, including at least one metal layer and one textile layer that has an outer face including at least one polymer mixed with at least one plasticizing agent, thus forming a first matrix.

Advantageously, the bond between said first matrix and the metal layer is ensured by an intermediate polymer layer including at least one coupling polymer.

Said coupling polymer is bonded by chemical bonds to the first matrix and to the metal layer.

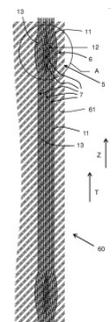
The present invention also relates to a method for manufacturing such an item and includes a step for metallization by depositing reduced-pressure metal vapors.

**DE102014105795 - Textile concrete part and method for its production**

*DRESDEN UNIVERSITY OF TECHNOLOGY*

Published 2016-09-15

Fabric concrete member having (60) as a textile reinforcement used in the form of a nonwoven fabric (10) and a fabric-textile reinforcement surrounding concrete matrix, wherein the textile reinforcement positively to form a self-locking in the concrete matrix is locked, to a force - and/or bonding preferably also between the concrete and the fabric, the fabric (10) at least three thread systems (1, 2, 3) each comprising a plurality of first, second and third filament bundles (11, 12, 13) has, which is preferably of one or more carbon fiber Rovings and/or glass fiber Rovings and/or other high performance Rovings are, wherein the first filament shares (11) and third filament shares (13) when viewed in plan view at least partially above and parallel to each other, wherein the second filament system (2) connected between the first and third filament system (1, 3) is wound, the filament shares (11, 12, 13) of the three thread systems (1, 2, 3) as viewed in plan in intersection of (5) cut, wherein the first, second and third filament shares (11, 12, 13) in said crossing regions (5) are pressed together and glued and at least the first and third filament shares (11, 12) outside said intersections (5) at least partially pressed together and glued, and overall thickening (6) in said crossing regions compared to



the (5) outside of the intersections (5) areas are formed.

### **EP3137705 - 3d fabric for floating floor constructions**

*SCHÖNOX*

Published 2017-03-08

A floor construction on a subsurface has a screed with a reinforcement made of a 3D textile with a lower and an upper textile ply which are connected together by one or more pile threads, wherein the lower textile ply is arranged in the lower half of the screed and the upper textile ply is arranged in the upper half of the screed, wherein an insulation layer is preferably furthermore arranged between the subsurface and the screed.

The reinforced screed of the floor construction allows thin screed layers with good load-bearing capacity.

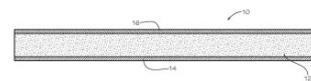
Good footfall sound insulation can be achieved with the floor construction containing an insulation layer.

### **US2016361894 - Foam sheathing reinforced with hybrid laminated fabric impregnated with vapor permeable air barrier material and method of making and using same**

*CIUPERCA ROMEO IIARIAN*

Published 2016-12-15

The invention comprises a product.



The product comprises a foam insulating panel having a first primary surface and an opposite second primary surface and a laminated fabric attached to the first primary surface of the foam insulating panel.

The laminated fabric is impregnated with an air-resistant, water-resistant, vapor permeable, elastomeric polymeric material, wherein the air-resistant, water-resistant, vapor permeable elastomeric polymeric material has an elongation factor of greater than 100%, a water vapor transmission rating of at least 0.1 perm and an air permeance of less than 0.004 cfm/sq.ft. under a pressure differential of 0.3 inches of water, whereby the air-resistant, water-resistant, vapor permeable elastomeric polymeric material provides a water-resistant, vapor permeable air barrier.

The laminated fabric comprises a woven or nonwoven carrier portion and a woven or nonwoven reinforcing portion attached to the carrier portion.

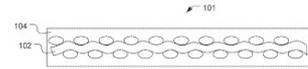
A method of making a composite sheathing panel is also disclosed.

**EP3204569 - Strength retention fabric**

*SAINT GOBAIN PERFORMANCE PLASTICS*

Published 2017-08-16

A fabric includes a reinforcement material and a layer disposed adjacent to the reinforcement material including a fluoropolymer and an elastomer.



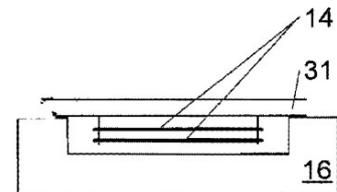
The fabric can be an architectural fabric included in an architectural assembly.

**DE102015100438 - Production of textile products of concrete**

*DRESDEN UNIVERSITY OF TECHNOLOGY*

Published 2016-03-24

The method for producing textile products of concrete, a reinforcing fabric (14) tension in a form (16) as previously formed is disposed, the mold (16) is vibrated concrete (17) cast and.

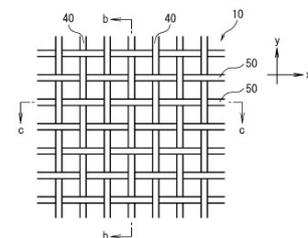


**US2017198422 - Metal fabric, interior decoration, partition member, clothing, and electromagnetic shielding member**

*ISHIKAWA KANAAMI*

Published 2017-07-13

A metal fabric (10) uses warp metal wires (40) as the warp, and weft metal wires (50) as the weft, where the warp metal wires (40) and the weft metal wires (50) are composed of different metal materials.



A curtain (100) as an interior decoration uses the metal fabric (10).

A partition member (200) is configured to have the metal fabric (10) and a frame (210) which supports the outer circumference of the metal fabric (10).

A clothing is configured to contain the metal fabric (10), and an electromagnetic shielding member is configured to contain the metal fabric (10).

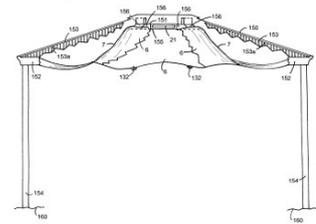
**US2016115699 - Fabric panel for hard top gazebo ceiling/fabric panel insert for hard top gazebo apparatus and a method of using same**

*PELILLO LUCIANA MARIA (Inventor)*

Published 2016-04-28

The present invention relates generally to a fabric panel for hard top gazebo ceiling/fabric panel insert for hard top gazebo apparatus and a method of using same.

More particularly, the invention encompasses a fabric insert that is suspended from a hard top gazebo apex and is meant to improve the comfort level of the gazebo and to provide additional aesthetic appeal.



The invention further includes rings, clips, Velcro, hook and loop strips, tension cord, tension cord lock, etc., to further support the functioning of the inventive invention.

**EP3121238 - Allergen-reducing composition, spray agent and surface treating agent containing said composition, allergen-reducing method, and fiber structure and building core material from which allergens are reduced**

*ENV SCIENCE*

Published 2017-01-25

Provided are an allergen reducing composition which is capable of reducing allergens such as mites and cedar pollen and causes less coloring of an allergen reduction target; a spray agent using the allergen reducing composition; a surface treatment agent using the allergen reducing composition; an allergen reducing method; an allergen reducing textile structure; and an allergen reducing architectural interior material.

The allergen reducing composition contains: (A) one or more kinds of compounds selected from the group consisting of a zinc salt and a copper salt; and (B) one or more kinds of compounds selected from the group consisting of rare earth salts.

The spray agent or the surface treatment agent contains the above-mentioned allergen reducing composition and water or a water-soluble solvent.

An allergen reducing method is to conduct processing using the above-mentioned allergen reducing composition in an environment where the allergens are present.

The textile structure is a textile structure processed by the above-mentioned allergen reducing composition.

The architectural interior material is an architectural interior material processed by the above-

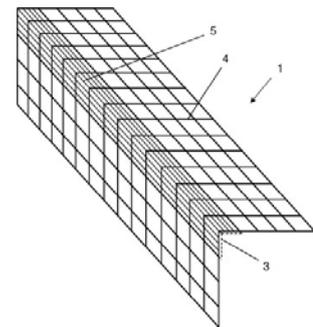
mentioned allergen reducing composition.

**DE202014105289 - Lattice fabric for the armouring of angular stair sections of stairs**

*THRONICKE SANDRO*

Published 2015-01-22

The reinforcing mesh for a staircase step angular portions



**DE202013011126 - Profiled, coated reinforcing fabric**

*NEXTRUSION*

Published 2015-01-22

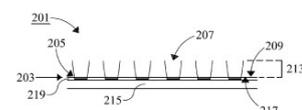
A coated, profiled reinforcing fabric characterized in that the fabric is composed of warp threads of synthetic threads and weft threads of monofilaments of a synthetic polymer wherein the weft threads have a breaking elongation of more than 19% and a free thermal shrinkage of about 12% at 180°C, and that the fabric is provided with a profile and a coating by molding.

**EP3008239 - Method for producing textile products, products obtainable therefrom and method to reclaim the products**

*DSM IP ASSETS*

Published 2016-04-20

The present invention pertains to a method for manufacturing a laminated textile product comprising providing a first intermediate product comprising a primary backing having a front surface and a back surface, and yarns stitched into the primary backing, the yarns extending from the front surface of the backing material, feeding the intermediate product along a body having a heated surface, the back surface being pressed against the said heated surface, to at least partly melt the yarns present in the intermediate product to bond the yarns to the backing, wherein the part of the back surface that is



pressed against the heated surface has a relative speed with respect to the heated surface, so as to provide a second intermediate product having a calendered back surface, providing a dimensionally stable carrier sheet or secondary backing, and connecting the second intermediate product to the carrier sheet by providing a hot melt adhesive between the calendered surface and the sheet, and pressing the sheet to the second intermediate product to form the textile product.

### **EP3019650 - Canvas to be painted, based on plant fibres**

*SAINT GOBAIN ADFORS*

Published 2016-05-18

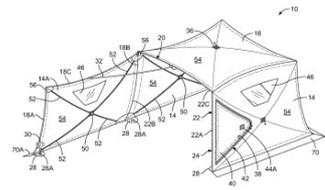
A paintable cloth includes a woven fabric including plant fibers, especially flax, jute, ramie and/or sisal fibers, the woven fabric additionally being coated with a finish.

### **US2017234029 - Flame resistant insulated fabric for shelters**

*CLAM*

Published 2017-08-17

A shelter including an enclosure having a plurality of interconnected side walls defining a floor space and being connected to a top wall, with at least one of the side walls or the top wall including a panel construction comprising a flame resistant insulated fabric, the flame resistant insulated fabric including a flame resistant outer layer, a flame resistant inner layer, an insulating middle layer disposed between and adhesively bonded to the flame resistant outer layer and the flame resistant inner layer.



Also disclosed is a method of making a shelter including forming the flame resistant insulated fabric.

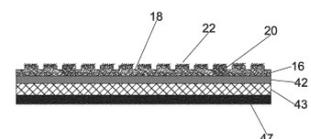
### **US2016369511 - Synthetic fabric having slip resistant properties and method of making same**

*SANDHAR Gurpreet Singh*

Published 2016-12-22

A synthetic nonwoven fabric having bonded fibers forming channels surrounding unbonded fibers forming raised slip resistant spots.

The fabric is made by extruding hot polymer through a spinneret die onto a moving belt to form a sheet of random fibers, which sheet undergoes a calendering process between a pair of heated rollers, one of which rollers having a



plurality of cavities defined in its surface.

The resulting fabric can be laminated and otherwise combined with other layers as desired to provide an end product having good slip resistant properties.

**DE102015006470 - System for subsequent sealing buildings (in particular building booths) against the pressure of water with textile-reinforced concrete inner tub based on microcrystal forming mortar**

*BAWAX*

Published 2016-11-24

With the herein for patent application stationary system have the described developments the existing technical problems in the subsequent sealing of buildings (in particular building basements) against the pressure of water textile reinforced concrete inner tub end.

It has thus been practicable sealing system is provided, said working - / cost of a conventional internal sealing based on sealing slurries significantly higher seal with the robustness and pressure waterproof inner well of WU concrete and provides a high quality repair wet Keller in a reasonable cost frame enables.

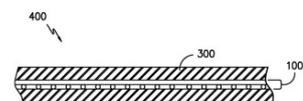
This is achieved by three major changes to existing application principles provides: - sealing grout formulation, by employing a post microcrystal forming sealant despite relatively low resistance during normal application manually significantly increased structural tightness (waterproof of from 3 cm to up 12 bar water pressure), later cracking seal on itself and thus less crack-distributing reinforcing uses. - Reinforcing - and anchoring system of basalt fibers, is durable, does not corrode, absorb high tensile and be included easily waterproof the sealing concrete structure. - - Pressure water-impermeable operation and joint grooves seal at constituent components by using XYPEX system even at low component sections (above 3 cm).

**US2016222556 - Knit fabric for use in roofing membranes**

*MILLIKEN*

Published 2016-08-04

A knit fabric containing a stitch yarn set containing pairs of stitch yarns, a warp yarn set containing in-lay warp yarns, and a weft yarn set containing weft inserted yarns.



Each pair of stitch yarns comprises a first stitch yarn and a second stitch yarn, where the first stitch yarn has a two bar first stitch pattern comprising repeating pattern of at least one tricot stitch optionally followed by at least one pillar stitch and the second stitch pattern comprises a mirror image to the first stitch pattern.



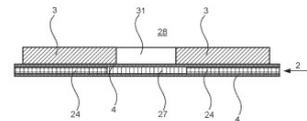
A roller shade for a window may include a roller including a position selectable, retraction system operatively coupled thereto; and the fabric on the roller.

### **EP3147119 - A woven fabric product**

*JUNG SHIN*

Published 2017-03-29

A woven fabric product (1) comprising - a sheet layer (2) wherein a plurality of strip formed weft elements (21) and warp elements (22) are woven together to form a sheet fabric, - a reinforcement layer (3) that is a woven band comprising openings (31) for fastening the product (1) when in use, - the reinforcement layer (3) is laminated on at least one side of the sheet layer (2), - at least one film layer (4) laminated on the sheet layer (2); the sheet fabric comprises at least two different type of weaves, - a basic weave (24) for a main sheet fabric area (25) having substantially equal number of orthogonally woven weft elements (21) and warp elements (22), and - a relief weave (27) to form a fastening region (28) where the number of warp elements (22) per width unit is reduced when compared to the number of weft elements (21).



### **FR3046608 - Composition of finish for fabric to paint and produced obtained.**

*SAINT GOBAIN ADFORS*

Published 2017-07-14

The present invention refers to an aqueous composition of finish intended for the manufacturing of a fabric to paint.

The composition is ready to reticulate under the effect of heat and it understands - at least a polyglycerol, - at least an organic acid containing at least three carboxyls groups, - at least a catalyst of esterification, - at least an agent plasticizing, and - at least a thickening agent.

It has also as an aim the fabrics to paint obtained, in particular containing mineral and/or organic ions.

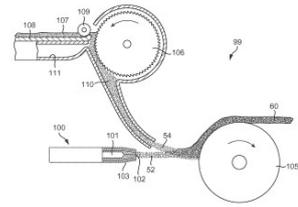
### **EP3137665 - Nonwoven fabric web**

*3M*

Published 2017-03-08

A nonwoven fabric web having an excellent sound absorption coefficient in a frequency range from 800Hz to 1000Hz when used as a sound absorbing member for a vehicle exterior.

The nonwoven fabric web including a nonwoven fabric having meltblown fibers and binder fibers arranged so as to be confounded with the meltblown fibers and fused with the meltblown fibers at some of the confounding points at the very least, the weight per unit area of the nonwoven fabric being from 400g/m<sup>2</sup> to 1500g/m<sup>2</sup>, and the flexural rigidity of the nonwoven fabric being from 2.0N/50mm to 20.0N/50mm.



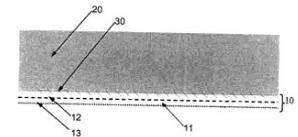
## US2017165941 - Multi-layer fabric reinforced cementitious matrix and application method thereof

*NANO & ADVANCED MAT INSTITUTE*

Published 2017-06-15

This disclosure provides an eco-friendly multi-layer fabric reinforced cementitious matrix (FRCM) enhanced by nanoparticles.

The FRCM is developed for structural strengthening and/or repairing in reinforced concrete buildings.



The FRCM consists of multi-layer fabrics as load-carrying and crack control components and a cementitious matrix as bedding for the fabric layers.

The cementitious matrix is eco-friendly based on a main constituent of ground granulated blast-furnace slag (GGBS) and recycled glass cullets.

Some additions, including nanoparticles, superplasticizer, hydroxy propyl methyl cellulose and/or starch ether, are added to achieve proper workability and rheology for application requirements, and to enhance fresh properties, mechanical properties and/or durability.

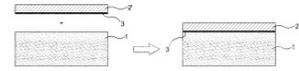
Man-made fabric and natural fabric are embedded in the cementitious matrix with designated purposes of load carrying and crack control.

## EP3085526 - Sound-absorbing/insulating material having excellent exterior and mouldability, and method for producing same

*HONDA MOTOR*

Published 2016-10-26

The present invention relates to a sound absorbing and insulating material with superior moldability and appearance and a method for manufacturing the same, more particularly to a sound absorbing and



insulating material consisting of an inner sound absorbing and insulating layer 1 formed of a first nonwoven fabric mainly formed of a heat-resistant fiber and a binder uniformly distributed inside the first nonwoven fabric and maintaining the three-dimensional structure inside the first nonwoven fabric and an outer sound absorbing and insulating layer 2', 2'' formed of a second nonwoven fabric mainly formed of a heat-resistant fiber, wherein the outer sound absorbing and insulating layer is stacked on one or both sides of the inner sound absorbing and insulating layer, and a method for manufacturing the same.

The sound absorbing and insulating material of the present invention has superior sound-absorbing property, flame retardancy, heat resistance, heat-insulating property and high-temperature moldability.

In addition, there is no concern of deterioration of surface appearance caused by leakage of the binder due to the presence of the outer sound absorbing and insulating layer.