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(54) **Fabric construction for making floor and stairs covering carpets**

Stoffkonstruktion zur Herstellung von Belagteppichen für Boden und Treppe

Structure de tissu pour fabriquer des tapis de recouvrement pour sols et escaliers

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Description

BACKGROUND OF THE INVENTION

[0001] The present invention relates to a fabric construction, which has been specifically designed for making carpets, in particular for covering floors, stairs steps and the like.

[0002] Several materials for covering floorings, either inside or outside, such as carpets, moquettes, mats and the like are already known.

[0003] Some of the above mentioned materials or products comprise braided textile composite materials.

[0004] A fabric construction for making carpets according to the preamble of claim 1 is known from GB 270712

[0005] However, the need is at present felt of a textile product which has improved characteristics with respect to prior products designed for the same or similar applications.

SUMMARY OF THE INVENTION

[0006] Accordingly, the aim of the present invention is to provide such a fabric or carpet construction, specifically adapted to cover floors, stairs steps and the like, which has a very high mechanical strength and a long duration and, in the meanwhile, is very inexpensive.

[0007] Within the scope of the above mentioned aim, a main object of the present invention is to provide such a fabric construction which is adapted for making a carpet having very good anti-slipping features.

[0008] Yet another object of the present invention is to provide such a fabric construction which is very flexible in operation, and can be used for making covering elements for covering comparatively large areas and, in the meanwhile, is adapted for making small carpets and mats.

[0009] According to one aspect of the present invention, the above mentioned aim and objects, as well as yet other objects, which will become more apparent hereinafter, are achieved by a fabric construction for making carpets, specifically for covering floors, stairs steps and the like, according to claim 1.

BRIEF DESCRIPTION OF THE DRAWINGS

[0010] Further characteristics and advantages of the present invention will become more apparent hereinafter from the following detailed disclosure of a preferred, though not exclusive, embodiment of the invention, which is illustrated, by way of an indicative, but not limitative example, in the accompanying drawings, where:

Figure 1 is a top plan view of a length of the fabric construction according to the present invention;
Figure 2 is an elevation cross-sectional view, of a portion of the fabric construction according to the invention; and

Figure 3 is a perspective view, on an enlarged scale and partially broken away, illustrating the fabric construction according to the present invention.

DESCRIPTION OF THE PREFERRED EMBODIMENT

[0011] With reference to the number references of the above mentioned figures, the fabric construction according to the invention, which has been generally indicated by the reference number 1, comprises warp threads 2 and weft threads 3 which are so braided with one another so that the warp forming rope elements are parallel to one another.

[0012] The weft forming rope elements, on the other hand, have a sinusoidal pattern, and alternatively pass above and under the warp forming rope elements.

[0013] According to the present invention, the weft threads 3 and/or the warp threads 2 comprise, as stated, rope elements.

[0014] Each rope element, in turn, comprises, as is clearly shown in figure 3, a core element 4 thereon are wound threads 5 which are braided according to a spiral pattern.

[0015] The core element 4, in turn, comprises parallel threads or wires.

[0016] The core threads 4 and braided threads 5 are advantageously constituted by synthetic fibers, for example the well known Dracon, Terital, Nylon fibers, polypropylene fibers or any other plastic material fibers as conventionally used for making cables, ropes and cords, for example for nautical applications.

[0017] In this connection, it should be pointed out that polypropylene, in particular, does not generate molds, has antibacterial properties and consequently being anallergic.

[0018] The use of the above mentioned rope elements for making the subject fabric construction, provides the fabric with a very high mechanical strength and long duration.

[0019] Moreover, the braided rope elements provide the great advantage that the carpet construction has anti-slipping properties, both with respect to the surface on which the carpet is supported and with respect to the user shoe soles.

[0020] Furthermore, by braiding rope elements of different types and colors, it is possible to provide the fabric construction of the invention with a very pleasant aesthetic aspect, deriving from any desired combinations of selected colors.

[0021] Furthermore, since the above mentioned rope elements comprise a plurality of thread elements, they can be made with a very broad range of colors and color combinations.

[0022] Yet another advantage of the carpet or fabric construction according to the invention, is constituted by its light weight, together with a high mechanical strength, typical of the used synthetic fibers.

[0023] Yet another advantage of the fabric construc-

tion of the invention is that it can be easily operated and cut, thereby the carpet can be easily and quickly assembled and installed and disassembled, for example for washing or replacing purposes.

[0024] The mechanical characteristics of the carpet construction according to the present invention make it very suitable for outside uses or applications, and for heavily trampled on areas.

[0025] Owing to the above disclosed characteristics, it is also very advantageous for covering floorings, used, for example, for child playing applications.

[0026] Yet another advantageous feature of the carpet or fabric construction according to the invention, is that it is very resistant to scratches by domestic animals.

[0027] It has been found that the invention fully achieves the intended aim and objects.

[0028] In fact, the invention has provided a fabric construction ideally suited for covering floorings, stairs steps and the like, and having a very high mechanical strength and long duration.

[0029] In practicing the invention, the used materials, and the contingent size and elements thereof, can be any, depending on the requirements and status of the art.

Claims

1. A fabric construction (1) for making carpets, specifically for covering floors, stair steps and the like, said fabric construction (1) comprising parallel braided warp threads (2) and parallel braided weft threads (3), **characterized, in that** each said braided warp thread (2) and each said braided weft thread (3) comprises a rope element including a core (4) comprising a plurality of parallel threads thereon are wound threads (5) which are braided in a spiral pattern and that the parallel weft rope elements are arranged in a sinusoidal pattern by alternatively passing above and under the parallel warp rope elements.
2. A fabric construction, according to Claim 1, **characterized in that** said core threads and braided threads comprise synthetic fibers, preferably nylon fibers, polypropylene fibers or any other synthetic fibers as conventionally used for making cables, ropes and cords, for example for a nautical use.

Patentansprüche

1. Stoffkonstruktion (1) zum Herstellen von Teppichen, insbesondere Bodenbelägen, Treppenstufen und dergleichen, wobei die Stoffkonstruktion (1) parallele geflochtene Kettfäden (2) und parallele geflochtene Schussfäden (3) umfasst, **dadurch gekennzeichnet, dass** jeder geflochtene Kettfaden (2) und jeder geflochtene Schussfaden (3) ein Seilelement umfasst, das einen Kern (4) aufweist, der mehrere par-

allele Fäden umfasst, die darauf gewickelte Fäden (5) sind, die in einem Spiralmuster geflochten sind, und dass die parallelen Schussseilelemente durch abwechselndes Führen der parallelen Kettseilelemente darüber und darunter in einem sinusförmigen Muster angeordnet sind.

2. Stoffkonstruktion nach Anspruch 1, **dadurch gekennzeichnet, dass** die Kernfäden und die geflochtenen Fäden synthetische Fasern, vorzugsweise Nylonfasern, Polypropylenfasern oder beliebige andere synthetische Fasern umfassen, die gewöhnlich zum Herstellen von Kabeln, Seilen und Strängen, zum Beispiel zur Verwendung in der Seefahrt benutzt werden.

Revendications

1. - Construction d'étoffe (1) destinée à faire des tapis, plus particulièrement pour couvrir des sols, des marches et similaire, ladite construction d'étoffe (1) comprenant des fils de chaîne tressés parallèles (2) et des fils de trame tressés parallèles (3), **caractérisée en ce que** chaque dit fil de chaîne tressé parallèle (2) et chaque dit fil de trame tressé parallèle (3) comprend un élément de cordage comportant une âme (4) comprenant une pluralité de fils parallèles sur laquelle sont enroulés des fils (5) qui sont tressés en un motif de spirale et **en ce que** les éléments de cordage de trame parallèles sont agencés en un motif sinusoïdal en passant, alternativement au-dessus et en dessous des éléments de cordage de chaîne parallèles.
2. - Construction d'étoffe selon la revendication 1, **caractérisée en ce que** lesdits fils d'âme et les fils tressés comprennent des fibres synthétiques, de préférence des fibres de nylon, des fibres de polypropylène ou toute autre fibre synthétique telle qu'utilisée traditionnellement pour fabriquer des câbles, des cordages et des cordes, par exemple pour une utilisation nautique.

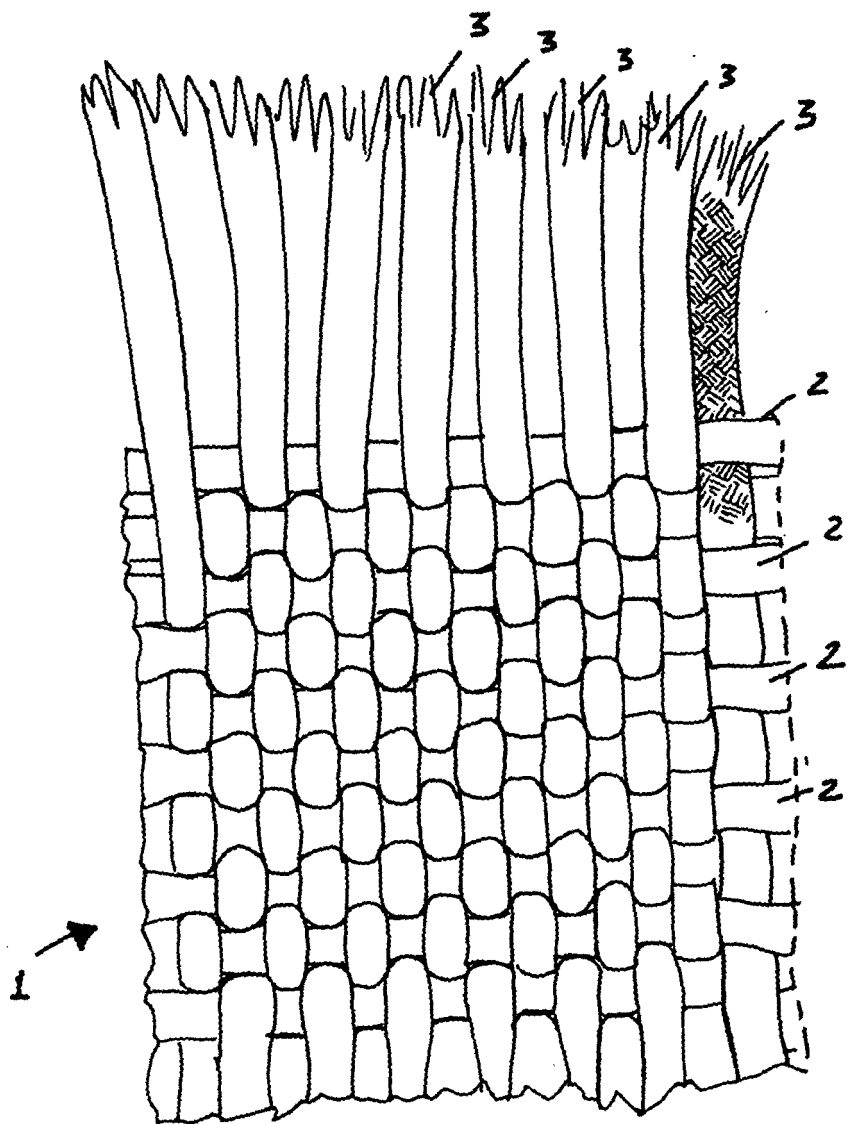


FIG. 1

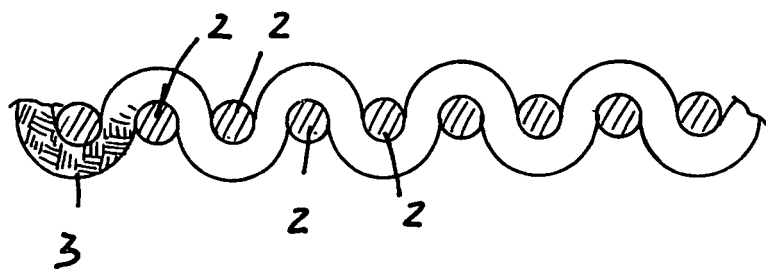


FIG. 2

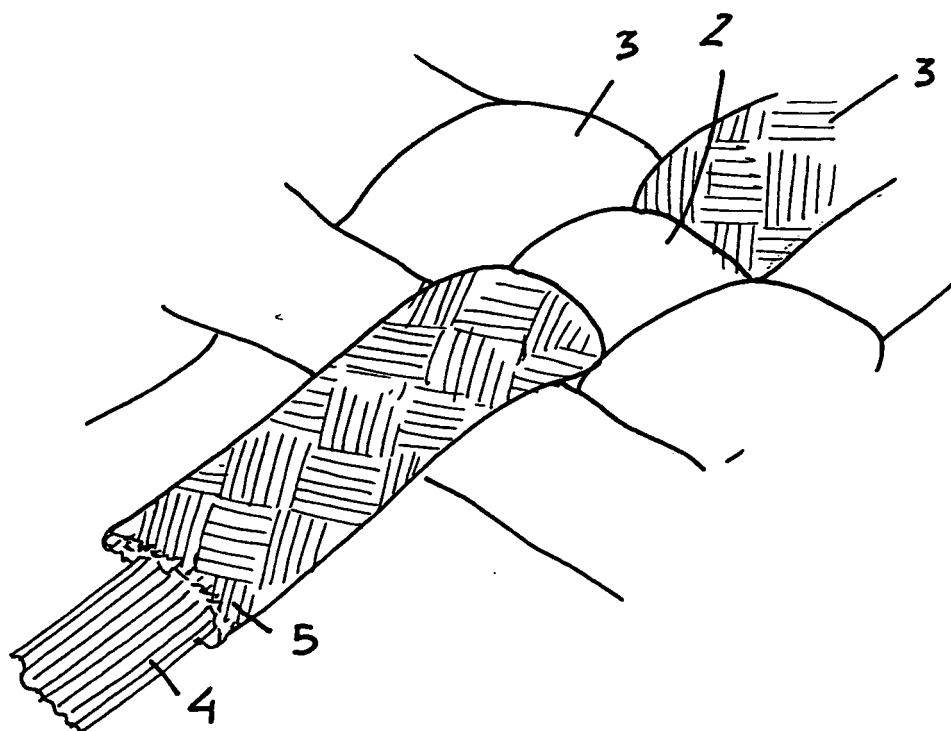


FIG. 3

REFERENCES CITED IN THE DESCRIPTION

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Patent documents cited in the description

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