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(54) **PAD FOR COATING**

AUFLAGE FÜR BESCHICHTUNG

TAMPON POUR REVÊTEMENT

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EP 3 938 122 B1

Description

TECHNICAL FIELD

[0001] The present disclosure relates generally to the field of pads for applying coatings, in particular to pads for applying protective coatings on e.g. wooden decks.

BACKGROUND

[0002] Exterior surfaces of e.g. wood, such as wooden decks, require application of protective coatings, such as e.g. oils, varnishes and paints, to protect the surface thereof.

[0003] Applying of protective coatings to such surfaces is a task that often is not particularly pleasant. Using available standard brushes for applying the coatings is generally rather time consuming and complicated. Such standard brushes often release too much oil or paint, giving unsatisfactory results, with bubbles and thick spots and fields of coating which has not been evenly distributed on the surface. Such coating, that has not been evenly distributed, often tends to peel off from the surface, leaving spots open to the influence of water, wind, attrition, etc.

[0004] US 4,244,074 describes a pad applicator comprising two different working zones. The pad applicator is suitable for applying paint to surfaces, and reduces the problem of paint dripping from the pad applicator when painting walls.

[0005] US2005/241095 discloses an applicator pad according to the preamble of claim 1. There is a need for an applicator that solves the problems above, giving a thin and even distribution of a coating.

SUMMARY

[0006] It is an object of certain aspects of the present invention to provide an improvement over the above described techniques and known art; particularly to provide pads that provide a thin and even distribution of coatings to surfaces, such as panels and wooden decks.

[0007] At least some of this and other objects and advantages that will be apparent from the description have been achieved by a pad as defined in claim 1.

[0008] Embodiments of the invention are recited in the dependent claims. The pad comprises a fabric of relatively higher absorbency material, the fabric having an average thickness T, the pad further comprising filaments of a relatively lower absorbency material, the filaments having a length L, wherein the length L of the filaments is equal to or longer than the thickness T.

[0009] According to an aspect the thickness T of the fabric is at least about 6 mm, preferably about 7-11 mm.

[0010] According to an aspect the length L is least about 6 mm, preferably about 8-13 mm. According to an aspect the filaments have a diameter D of about 0.15-0.20 mm.

[0011] According to an aspect the filaments have a dtex of about 1000-1200 g/10 000 m, preferably about 1100 g/10 000 m.

[0012] According to the claimed invention the filaments are essentially evenly distributed in the fabric of the pad. According to an aspect the pad, when used for applying coatings, releases about 50 to 100, preferably about 60 to 90, more preferably about 64 to 83, gram water based decking stain per square meter rough wooden deck that is pressure treated with wood preservatives. According to an aspect the filaments extends through the fabric in the direction of the thickness T.

[0013] According to the claimed invention the surface area of the pad comprises about 62-80% filaments, while the remaining percentages comprise the fabric, where percentages are calculated based on the number of filaments in relation of the number of threads of the fabric in a specified surface area of the pad.

[0014] According to the claimed invention the filaments comprise polyester, polyamide and/or polypropylene.

[0015] According to the claimed invention the fabric of the relatively higher absorption material comprises polyester, microfiber, acrylic, polyamide and/or polypropylene.

[0016] According to an aspect the pad further comprises a base layer.

[0017] The base layer is preferably positioned behind the fabric and filaments in relation to the surface to be coated.

[0018] In one aspect the fabric and filaments are attached to the base layer.

[0019] According to an aspect the base layer has a thickness X of about 6-10 mm, preferably about 7-9 mm.

[0020] According to an aspect the base layer comprises a foam material, such as polyurethane foam.

[0021] According to an aspect, the present invention relates to an applicator comprising a pad according to the present invention.

[0022] According to an aspect the applicator comprises a handle and/or means for attaching the applicator to a handle and/or an extension pole/stick.

[0023] At least some of the above identified and other objects and advantages that may be apparent from the description have been achieved by a pad and an applicator in accordance with the above.

BRIEF DESCRIPTION OF THE DRAWINGS

[0024] These and other aspects, features and advantages of which embodiments of the invention are capable of, will be apparent and elucidated from the following description of embodiments and aspects of the present invention, reference being made to the accompanying drawings, in which

Fig. 1 shows a plan view of the pad of an aspect of the invention.

Fig. 2 shows a cross-sectional side view of a pad of an aspect of the invention, where the part of the pad that will be in contact with the surface to be coated is upwards.

Fig. 3a-3b is a schematic view from above of a pad of an aspect of the invention, when used for applying a coating.

Fig. 4 is a view of an applicator of an aspect of the invention, comprising a handle and means for attaching the pad to the handle, where the part of the pad that will be in contact with the surface to be coated is downwards.

Fig. 5 shows a side view of the applicator of an aspect of the invention, where the part of the pad that will be in contact with the surface to be coated is downwards.

Fig. 6 shows a cross-sectional side view of a pad of an aspect of the invention, where the part of the pad that will be in contact with the surface to be coated is upwards.

DETAILED DESCRIPTION

[0025] Specific embodiments of the invention will now be described with reference to the accompanying drawings. This invention may, however, be embodied in many different forms and should not be construed as limited to the embodiments set forth herein; rather, these embodiments are provided so that this disclosure will be thorough and complete, and will fully convey the scope of the invention to those skilled in the art. The terminology used in the detailed description of the embodiments illustrated in the accompanying drawings is not intended to be limiting of the invention. In the drawings, like numbers refer to like elements. The terminology used herein is for the purpose of describing particular aspects of the disclosure only, and is not intended to limit the disclosure. As used herein, the singular forms "a", "an" and "the" are intended to include the plural forms as well, unless the context clearly indicates otherwise.

[0026] In the drawings and specification, there have been disclosed exemplary aspects of the disclosure. However, many variations and modifications can be made to these aspects without substantially departing from the the scope of the appended claims. Thus, the disclosure should be regarded as illustrative rather than restrictive, and not as being limited to the particular aspects discussed above. Accordingly, although specific terms are employed, they are used in a generic and descriptive sense only and not for purposes of limitation, for example, definition of dimensions such as width or breadth or height or length or diameter depends on how exemplary aspects are depicted, hence, if depicted differently, a shown width or diameter in one depiction is a

length or thickness in another depiction.

[0027] It should be noted that the word "comprising" does not necessarily exclude the presence of other elements or steps than those listed and the words "a" or "an" preceding an element do not exclude the presence of a plurality of such elements. It should further be noted that any reference signs do not limit the scope of the claims, that the example aspects may be implemented at least in part by means of both hardware and software, and that several "means", "units" or "devices" may be represented by the same item of hardware.

[0028] The different aspects, alternatives and embodiments of the invention disclosed herein can be combined with one or more of the other aspects, alternatives and embodiments described herein. Two or more aspects can be combined.

[0029] An embodiment of the invention is shown in Fig. 1 and Fig. 2, including a pad 1 comprising a fabric 2 of relatively higher absorbency material, where the fabric 2 comprising the relatively higher absorbency material has an average thickness T.

[0030] In one embodiment, the thickness of the fabric 2 may vary about ± 0.5 mm, thus the average thickness T is used as reference. The pad 1 further comprises filaments 3 of a relatively lower absorbency material. The filaments 3 preferably have a length L, which length L preferably is equal to or longer than the average thickness T of the fabric 2 of relatively higher absorbency material.

[0031] The filaments extend in the direction of the thickness T.

[0032] The average thickness T of the fabric 2 of the relatively higher absorbency material preferably is at least about 6 mm, and is preferably within the range of about 7-11 mm.

[0033] The length L of the filaments 3 may be at least about 6 mm, and is preferably within the range of about 8-13 mm. All the filaments 3 on the pad 1 must not be of the same length L, but may have different lengths.

[0034] In one embodiment, the pad 1 releases about 50 to 100, preferably about 60 to 90, more preferably about 64 to 83, gram water based decking stain per square meter rough wooden deck, when the pad 1 is used for applying the water based decking stain on a wooden deck comprising wood that is pressure treated with wood preservatives.

[0035] The filaments 3 of the pad 1 are preferably evenly distributed in the fabric 2 of the pad 1. Thus, they are preferably not distributed in lines, groups/spots, etc., but are spread out on the pad in the fabric 2 of the relatively higher absorbency material, as is shown in Fig. 1.

[0036] Preferably, the filaments 3 extend through the fabric 2 in the direction of the thickness T, as is shown in Fig. 2.

[0037] The pad 1, in one embodiment, preferably comprises about 40-80 %, preferably about 50 - 70 %, more preferably about 62 %, filaments 3, while the remaining

percentages comprise the fabric 2. In one embodiment, the percentages are calculated based on the number of filaments 3 in relation of the number of threads in the fabric 2 in a specific surface area of the pad 1. In another embodiment, the percentages are calculated based on the surface area.

[0038] The filaments 3 may comprise a material that is more rigid than the fabric 2. This limits the compression of the fabric 2 and the flexing of the pad 1, giving the effect sought for. In a preferred embodiment, the filaments 3 may comprise polyester, polyamide and/or polypropylene.

[0039] In one preferred embodiment, the filaments 3 have a diameter D of about 0.15-0.20 mm.

[0040] Further, the filaments 3, comprising polyester, polyamide and/or polypropylene may be cut with a dtex of about 1000-1200 g/10 000 m. In one preferred embodiment, the dtex of the filaments is about 1100 g/10 000 m.

[0041] The fabric 2 of relatively higher absorbency material may comprise polyester, microfiber, acrylic, polyamide and/or polypropylene.

[0042] One embodiment of the invention is shown in Fig. 6, where the pad 1 further comprises a base layer 7. The base layer 7 is preferably positioned behind the fabric 2 and filaments 3 in relation to the surface where the coating is to be applied, and closest to the handle or means for attaching the handle. The fabric 2 and filaments 3 are preferably attached to the base layer, e.g. by gluing the fabric 2 and filaments 3 to the base layer 7.

[0043] The base layer 7 preferably has a thickness X of about 6-10 mm, preferably about 7-9 mm.

[0044] In one embodiment, the base layer 7 comprises a foam material, such as polyurethane foam.

[0045] One embodiment of an applicator 4 comprising a pad 1 according to the present invention is shown in Fig. 4. According to this embodiment, the pad used comprises fabric (2) and filaments (3), but no base layer (7).

[0046] Another embodiment of an applicator 4 comprising a pad 1 according to the present invention is shown in Fig. 5. According to this embodiment, the pad used comprises fabric (2) and filaments (3), and further also the base layer (7).

[0047] The applicator 4 may comprise a handle 5 and/or means 6 for attaching the applicator 4 to a handle 5 and/or e.g. a extension pole/stick. The use of a handle 5 and/or extension pole/stick makes the handling and use of the applicator 4 more easy and convenient. An extension pole/stick may preferably be mounted if a person that intends to apply a coating on a surface, such as a wooden deck, would like to do so while being able to stand in an upright position. As seen in Fig. 5 and Fig. 6, the base layer 7 is positioned between the handle 5 and/or means 6 for attaching the applicator 4, and the fabric 2 and filaments 3.

[0048] Further, since it is beneficial if a wooden deck is sanded before applying a coating, in one embodiment the means 6 for attaching the handle 5 and/or extension pole/stick, and/or the handle 5 *per se*, is of the same

type as used on the device used for sanding, i.e. the same handle 5 and/or extension pole/stick can be used both when sanding and applying coatings.

[0049] A pad 1 according to the present invention has the benefits that the fabric 2 of relatively higher absorption material has a good absorption of the coating when applying the coating to a surface, such as a wooden deck. A small pressure may be necessary to be applied by the person holding the handle/stick of the applicator 4 to distribute coating from the pad 1 onto the surface, such as a wooden deck. The size of the applied pressure controls the amount of coating that is released from the pad 1.

[0050] A small degree of friction between the pad 1 and the surface, such as a wooden deck, is desirable, since that facilitates applying the required/desired pressure giving release of the coating from the pad 1.

[0051] The fact that the fabric 2 of relatively higher absorption material has a good absorption, further has the effect that the fabric 2 may absorb redundant coating that is not absorbed by the wooden deck. Such redundant coating could otherwise give an undesirable result with bubbles and thick spots and fields of coating, which later may peel off.

[0052] The average thickness T of the fabric 2 contributes to a good absorption as described above, and also to that the fabric 2 may reach down into irregularities in the surface, such as cracks etc. in the wooden deck, so that the coating is applied evenly all over the surface. Using a base layer 7 may also contribute to this effect. When there are large differences in height between different boards or planks, it is also beneficial that the applicator may be turned 90° so that coating only is applied on one board or plank at the time when using the applicator of the invention.

[0053] The base layer 7 gives a more comfortable use to the person using a pad according to the invention, since it gives a softer feeling when using the pad 1 and/or applicator 4 of the invention, reducing the impact of irregularities in the panels etc.

[0054] The filaments 3 on the pad 1 helps in moving the coating in the direction of movement of the pad 1 along the surface, such as a wooden deck, avoiding the creation of bubbles and thick spots and fields of coating, which later may peel off. The filaments 3 create friction against the wooden deck and aids in applying pressure on the fabric 2 of relatively higher absorption material so that coating is released from the pad 1. Further, the filaments 3 prevent the fabric 2 from becoming to compressed and flat, and to wear down quickly due to the friction against the wooden deck. Thus, the filaments 3 also contribute to the pad 1 lasting longer.

[0055] The size of the pad 1 is not critical, but suitably the pad 1 have a size that is well adapted to its purpose. In one embodiment the pad has a length and width within a range of 5 cm to 100 cm. Figs. 3a and 3b show how the size of the pad 1 suitably is adapted such that the width of the pad 1 essentially covers the width of one board or

plank and the length of the pad 1 essentially covers the width of two or more boards or planks, when the pad 1 is used in the direction of the length of the plank/board.

Claims

1. A pad (1) for applying a coating on a surface, the pad (1) comprising a fabric (2) of relatively higher absorbency material wherein the fabric (2) of the relatively higher absorbency material comprises polyester, microfiber, acrylic, polyamide and/or polypropylene, the fabric (2) having an average thickness T, the pad (1) further comprising filaments (3) of a relatively lower absorbency material wherein the filaments (3) comprises polyester, polyamide and/or polypropylene, the filaments (3) having a length L, wherein the length L of the filaments (3) is equal to or longer than the thickness T, **characterised in that** the surface area of the pad (1) comprises about 62-80 % filaments (3), where percentages are calculated based on the number of filaments (3) in relation of the number of threads of the fabric (2) in a specified surface area, and wherein the filaments (3) are essentially evenly distributed in the fabric (2) of the pad (1).
2. The pad (1) according to claim 1, wherein the thickness T is at least about 6 mm, preferably about 7-11 mm.
3. The pad (1) according to any one of the previous claims, wherein the length L is least about 6 mm, preferably about 8-13 mm.
4. The pad (1) according to any one of the previous claims, wherein the filaments (3) have a diameter D of about 0.15-0.20 mm.
5. The pad (1) according to any one of the previous claims, wherein the filaments (3) have a dtex of about 1000 to about 1200 g/10 000 m, preferably about 1100 g/10 000 m.
6. The pad (1) according to any one of the previous claims, wherein the pad (1) releases about 50 to 100, preferably about 60 to 90, more preferably about 64 to 83, gram water based decking stain per square meter rough wooden deck that is pressure treated with wood preservatives.
7. The pad (1) according to any one of the previous claims, wherein the filaments (3) extends through the fabric (2) in the direction of the thickness T.
8. The pad (1) according to any one of the previous claims, further comprising a base layer (7) positioned behind the fabric (2) and filaments (3), in relation to

the surface to be coated.

9. The pad (1) according to claim 8, wherein the base layer (7) has a thickness X of about 6-10 mm, preferably about 7-9 mm.
10. The pad (1) according to claim 8 or claim 9, wherein the base layer (7) comprises a foam material.
11. The pad (1) according to claim 10, wherein the foam material comprises polyurethane foam.
12. An applicator (4) comprising a pad (1) according to any one of the previous claims.
13. The applicator (4) according to claim 12, further comprising a handle (5) and/or means (6) for attaching the applicator (4) to a handle (5) and/or an extension pole.

Patentansprüche

1. Kissen (1) zum Aufbringen einer Beschichtung auf eine Oberfläche, wobei das Kissen (1) ein Gewebe (2) aus Material mit vergleichsweise höherer Absorptionsfähigkeit umfasst, wobei das Gewebe (2) aus dem Material mit vergleichsweise höherer Absorptionsfähigkeit Polyester, Mikrofaser, Acryl, Polyamid und/oder Polypropylen umfasst, wobei das Gewebe (2) eine mittlere Dicke T aufweist, wobei das Kissen (1) ferner Filamente (3) aus einem Material mit vergleichsweise niedrigerer Absorptionsfähigkeit umfasst, wobei die Filamente (3) Polyester, Polyamid und/oder Polypropylen umfassen, wobei die Filamente (3) eine Länge L aufweisen, wobei die Länge L der Filamente (3) gleich der oder länger als die Dicke T ist, **dadurch gekennzeichnet, dass** die Oberfläche des Kissens (1) etwa 62-80 % an Filamenten (3) umfasst, wobei Prozentwerte bezogen auf die Anzahl an Filamenten (3) relativ zu der Anzahl an Fäden des Gewebes (2) in einer vorgegebenen Oberfläche berechnet werden und wobei die Filamente (3) in dem Gewebe (2) des Kissens (1) im Wesentlichen gleichmäßig verteilt sind.
2. Kissen (1) nach Anspruch 1, wobei die Dicke T wenigstens etwa 6 mm, vorzugsweise etwa 7-11 mm, beträgt.
3. Kissen (1) nach einem der vorstehenden Ansprüche, wobei die Länge L wenigstens etwa 6 mm, vorzugsweise etwa 8-13 mm, beträgt.
4. Kissen (1) nach einem der vorstehenden Ansprüche, wobei die Filamente (3) einen Durchmesser D von etwa 0,15-0,20 mm aufweisen.

5. Kissen (1) nach einem der vorstehenden Ansprüche, wobei die Filamente (3) ein dtex von etwa 1000 bis etwa 1200 g/10 000 m, vorzugsweise etwa 1100 g/10 000 m, aufweisen.
6. Kissen (1) nach einem der vorstehenden Ansprüche, wobei das Kissen (1) etwa 50 bis 100, vorzugsweise etwa 60 bis 90, bevorzugter etwa 64 bis 83 Gramm, an Deckbeize auf Wasserbasis pro Quadratmeter rauem Holzdeck, das mit Holzkonservierungsmitteln druckbehandelt ist, freisetzt.
7. Kissen (1) nach einem der vorstehenden Ansprüche, wobei die Filamente (3) in der Richtung der Dicke T durch das Gewebe (2) verlaufen.
8. Kissen (1) nach einem der vorstehenden Ansprüche, ferner umfassend eine Grundschicht (7), die bezogen auf die zu beschichtende Oberfläche hinter dem Gewebe (2) und den Filamenten (3) angeordnet ist.
9. Kissen (1) nach Anspruch 8, wobei die Grundschicht (7) eine Dicke X von etwa 6-10 mm, vorzugsweise etwa 7-9 mm, aufweist.
10. Kissen (1) nach Anspruch 8 oder Anspruch 9, wobei die Grundschicht (7) ein Schaumstoffmaterial umfasst.
11. Kissen (1) nach Anspruch 10, wobei das Schaumstoffmaterial Polyurethanschaumstoff umfasst.
12. Applikator (4) umfassend ein Kissen (1) nach einem der vorstehenden Ansprüche.
13. Applikator (4) nach Anspruch 12, ferner umfassend einen Griff (5) und/oder Mittel (6) zum Befestigen des Applikators (4) an einem Griff (5) und/oder einer Verlängerungsstange.

Revendications

1. Tampon (1) pour appliquer un revêtement sur une surface, le tampon (1) comprenant un tissu (2) d'un matériau relativement plus absorbant, le tissu (2) du matériau relativement plus absorbant comprenant du polyester, de la microfibre, de l'acrylique, du polyamide et/ou du polypropylène, le tissu (2) ayant une épaisseur moyenne T, le tampon (1) comprenant en outre des filaments (3) d'un matériau relativement moins absorbant, les filaments (3) comprenant du polyester, du polyamide et/ou du polypropylène, les filaments (3) ayant une longueur L, la longueur L des filaments (3) étant égale ou supérieure à l'épaisseur T, **caractérisé en ce que** la surface du tampon (1) comprenant environ 62 à 80

% de filaments (3), les pourcentages étant calculés sur la base du nombre de filaments (3) par rapport au nombre de fils du tissu (2) dans une surface spécifiée, et les filaments (3) étant essentiellement répartis uniformément dans le tissu (2) du tampon (1).

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2. Tampon (1) selon la revendication 1, l'épaisseur T étant d'au moins environ 6 mm, de préférence d'environ 7 à 11 mm.

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3. Tampon (1) selon l'une quelconque des revendications précédentes, la longueur L étant d'au moins environ 6 mm, de préférence d'environ 8 à 13 mm.

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4. Tampon (1) selon l'une quelconque des revendications précédentes, les filaments (3) ayant un diamètre D d'environ 0,15 à 0,20 mm.

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5. Tampon (1) selon l'une quelconque des revendications précédentes, les filaments (3) ayant un dtex d'environ 1000 à environ 1200 g/10 000 m, de préférence d'environ 1100 g/10 000 m.

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6. Tampon (1) selon l'une quelconque des revendications précédentes, le tampon (1) libérant environ 50 à 100, de préférence environ 60 à 90, plus préférentiellement environ 64 à 83, grammes de teinture pour terrasse à base d'eau par mètre carré de terrasse en bois brut traitée sous pression avec des produits de préservation du bois.

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7. Tampon (1) selon l'une quelconque des revendications précédentes, les filaments (3) s'étendant à travers le tissu (2) dans la direction de l'épaisseur T.

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8. Tampon (1) selon l'une quelconque des revendications précédentes, comprenant en outre une couche de base (7) positionnée derrière le tissu (2) et les filaments (3), par rapport à la surface à revêtir.

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9. Tampon (1) selon la revendication 8, la couche de base (7) ayant une épaisseur X d'environ 6 à 10 mm, de préférence d'environ 7 à 9 mm.

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10. Tampon (1) selon la revendication 8 ou la revendication 9, la couche de base (7) comprenant un matériau en mousse.

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11. Tampon (1) selon la revendication 10, le matériau en mousse comprenant de la mousse de polyuréthane.

12. Applicateur (4) comprenant un tampon (1) selon l'une quelconque des revendications précédentes.

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13. Applicateur (4) selon la revendication 12, comprenant en outre une poignée (5) et/ou des moyens (6) pour fixer l'applicateur (4) à une poignée (5) et/ou à une perche d'extension.

FIG. 1

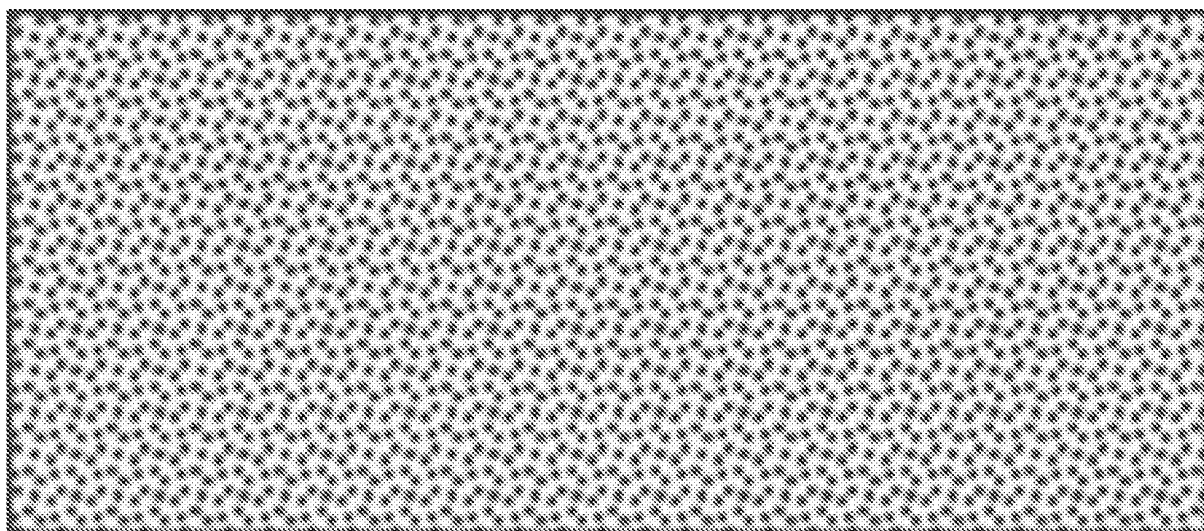


FIG. 2

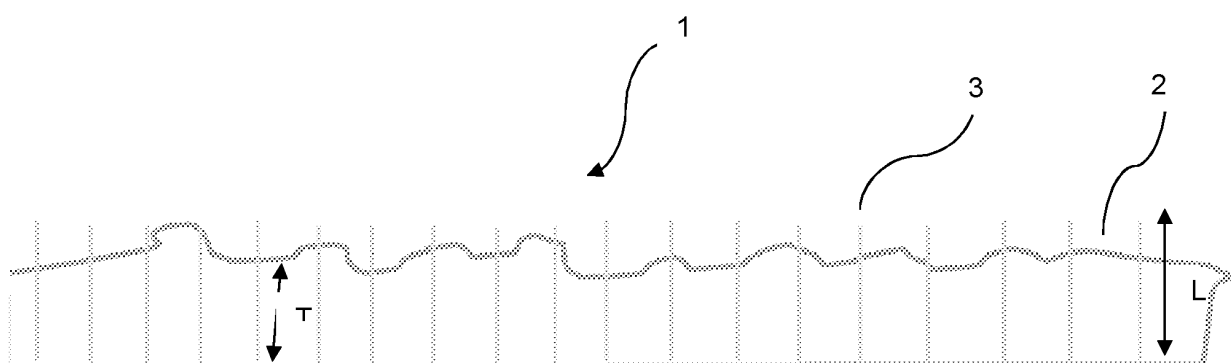


FIG. 3a

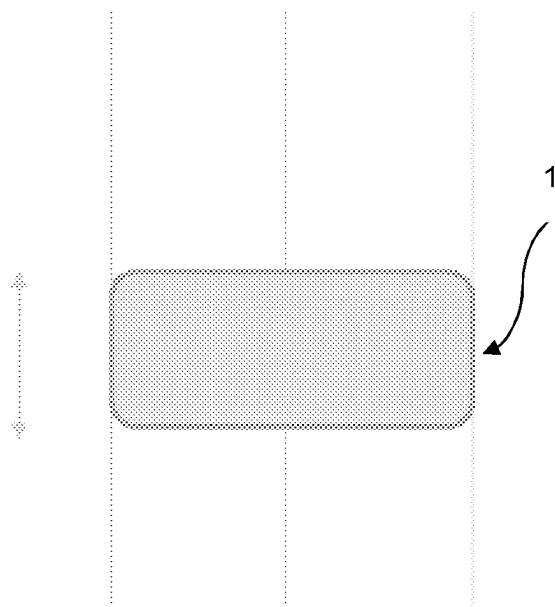


FIG. 3b

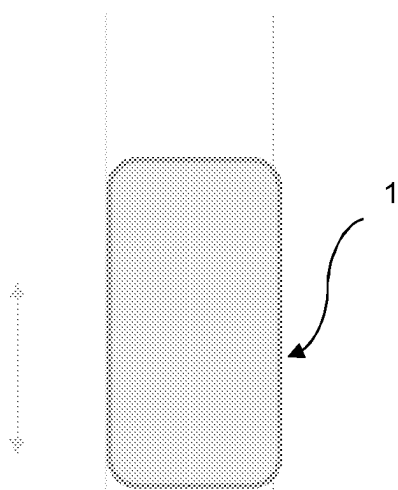


FIG. 4

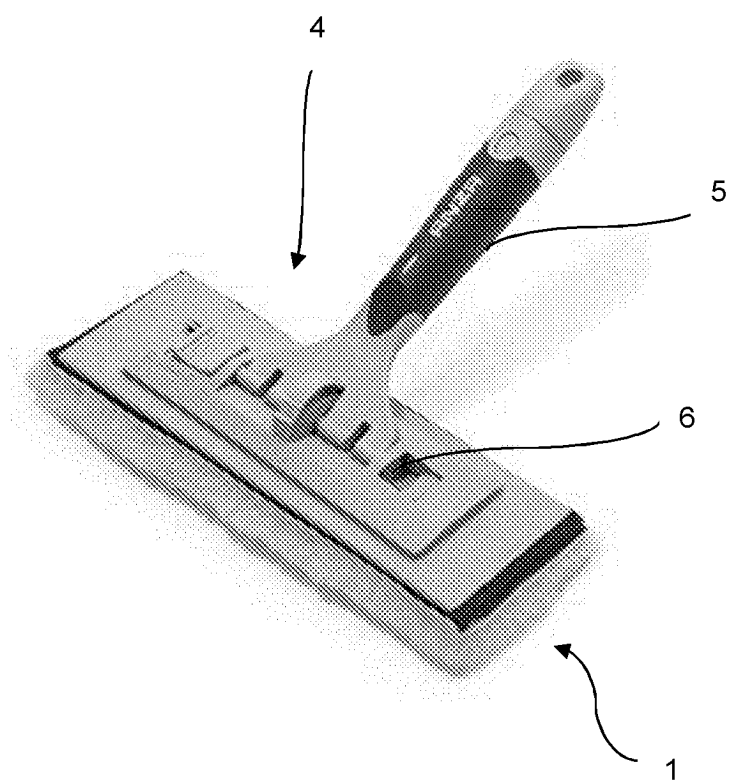


FIG. 5

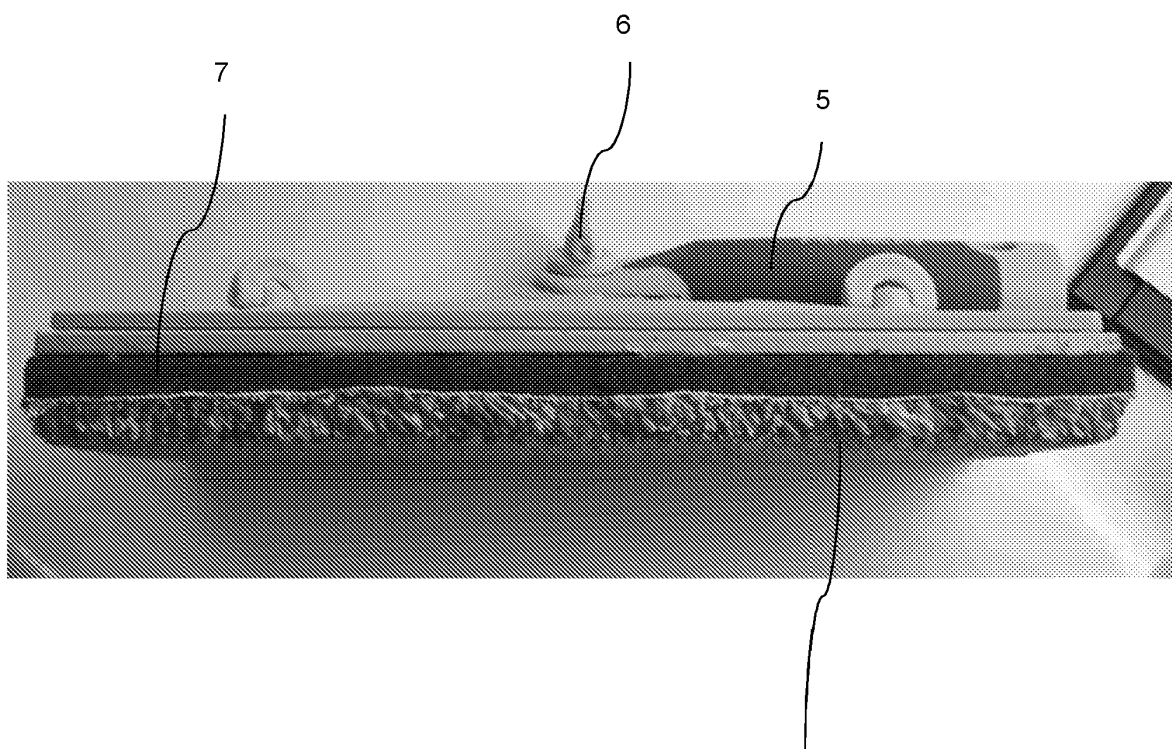
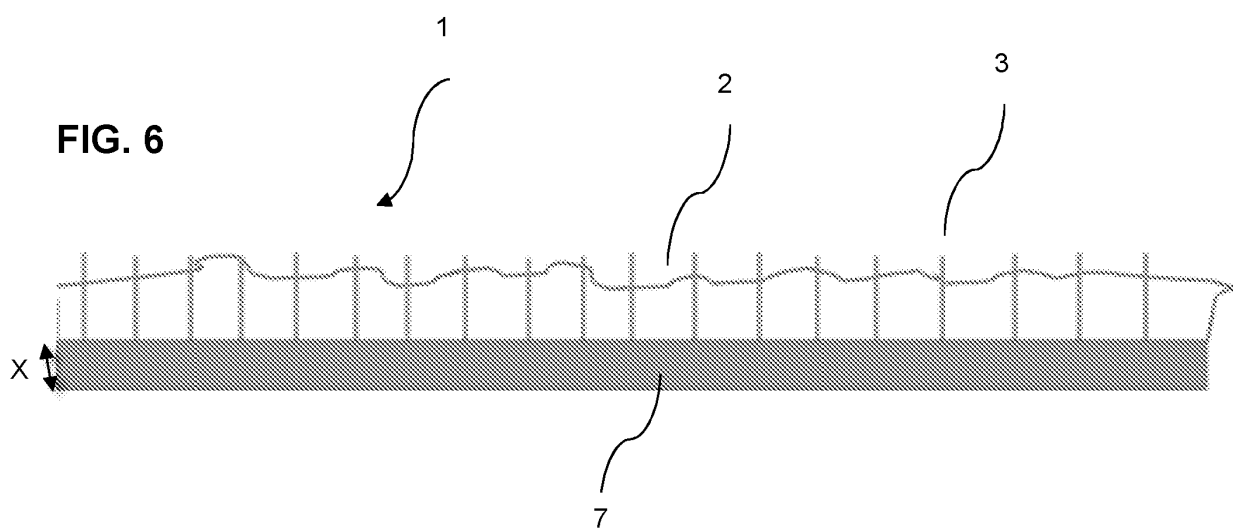


FIG. 6



REFERENCES CITED IN THE DESCRIPTION

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