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(54) ASSEMBLY FOR SUSPENDING OBJECTS SUCH AS PRINTS

SYSTEM ZUM AUFHÄNGEN VON GEGENSTÄNDEN WIE BILDER

ENSEMBLE DE SUSPENSION D'OBJETS TELS QUE DES GRAVURES

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Description

The invention relates to an assembly as described in the preamble of claim 1. Furthermore, the invention relates to a hook as described in the preamble of claim 6.

An assembly for suspending objects such as prints is known among others from EP-A-0183325.

In EP-A-0183325 a suspension system is disclosed, comprising an upper and a lower block-shaped hook, the upper block hook being substantially inverted U-shaped so as to be hooked with the thus formed channel or groove to an upright wall portion of a suspension rail or the upper edge of a panel. The block-shaped hook is further provided with a vertical passage for a wire, as well as with a further passage extending perpendicularly to that passage, which is provided with a screw thread and in which a socket screw can be screwed to secure the wire in its position in the passage.

An assembly and a hook of the kind described in the preambles of claims 1 and 6 are known from DE-U-7917482. This known assembly comprises upper and lower, substantially C-shaped hooks, whereby the upper hook can be hooked to a suspension rail and the lower hook, which is connected to the upper hook by means of a wire, can be hooked to the object. The C-shaped hooks are provided with open grooves through which the wire can extend. At its lower end and at its upper end the wire is provided with anchoring blocks of a dimension such that they cannot move through the above mentioned grooves and can thus secure the wire relative to the respective hooks. In order to more or less fix the position of the anchoring blocks with respect to the C-shaped hooks, the legs of the C-shaped hooks which are provided with grooves are V-shaped so that the anchoring blocks can be accommodated therein in an inclined way. The cube-shaped anchoring blocks will here assume such a position that their lower and upper face, respectively, will end up being positioned at an angle of approximately 45° with the horizontal. At the position of exit from the block the wire, which extends through the blocks and is secured therein with the help of a screw, will undergo a change of direction of 45° and will rest there against the opening edge of the passage in the block. Here there is a danger that in the course of time the wire will be cut there, possibly resulting in failure of the wire, the further consequence being that the object falls down.

It is an object of the invention to provide an assembly of the type named in the preamble, whereby the elongated member is at least with its upper end secured in an anchoring block, which can be securely hooked into the hook, without there being an increased risk of failure of the elongated member.

For this purpose the invention provides an assembly and a hook as described in claims 1 and 6, resp.

The lower hook-shaped portion, which is at least intended for securing the elongated member, is prefer-

ably substantially U-shaped, the supporting means being formed by the base thereof. The lower hook-shaped portion is preferably straight U-shaped, the anchoring block being substantially straight parallel-piped shaped and the receiving space extending perpendicularly to at least one of the faces of the anchoring block.

The anchoring block is preferably fittingly accommodated in the lower hook-shaped portion.

The invention will now be described in more detail with reference to two exemplary embodiments shown in the accompanying drawing, in which:

Fig. 1 shows an assembly according to the invention.

In fig. 1 a wall panel 1 is schematically shown, which is provided with an upper edge 2. A double hook 3 is placed on and around the upper edge 2, the upper inverted U-shaped part with wall parts 4, 5 and 6 resting on three sides against the upper edge of the panel 1. The width of the base of the upper U-shaped hook part corresponds here with the width of the upper edge 2, so that the hook 3 is secured against rotation in the vertical plane, its wall part 6 being in surface-to-surface contact with the front surface 15 of the panel 1. The hook 3 comprises further a lower hook part, which is formed by the wall parts 6, 7 and 8, which together define a U-shape with right-angled corners. At its centre the base of the U-form, formed by the wall part 7, is provided with a round hole 10.

The lower end (not shown) of the suspension wire 14 can be provided with a hook or a loop onto which the object to be displayed can be suspended.

The upper end of the wire 14 is accommodated in the vertical passage 12 in the cube-shaped anchoring block 9. The anchoring block 9 is further provided with a threaded passage 11, which opens perpendicularly into the passage 12 and is suitable for receiving a socket screw 13. By screwing the socket screw into the passage 11 in the direction B the upper end of the wire 14 is secured in the passage 12.

If, when installing, the lower end of the wire 14 does not form a permanent loop, the wire 14 is preferably led with its lower end from above through the hole 10 in the direction A up to the anchoring block 9, that is securely fastened beforehand at the upper end of the wire 14, accommodated in a snugly fitting way in the U-shaped, lower part of the hook 3. The anchoring block is then securely fastened against sliding and, because the passage 12 is aligned with the hole 10 and the remaining part of the wire 14, the wire 14 will not be subjected to any notch effect.

It will be clear that with the hook embodiment the upper inverted U-shaped portion can be replaced by a differently formed hook-shaped portion, if the form of the suspension rail or the upper edge of the panel necessitate this for a secure attachment.

Claims

1. Assembly for suspending objects such as paintings, pictures and the like on a rail, a panel edge or the like, intended for being arranged in a substantially horizontal way, the assembly comprising an elongated member (14) intended to extend in a substantially vertical direction between the rail, the panel edge or the like and the object, a hook (3) comprising an upper hook-shaped portion (4, 5, 6) being formed so as to be hooked onto the rail, the panel edge or the like, the hook (3) further comprising a lower hook-shaped portion (6, 7, 8) being formed so as to support an anchoring block (9), the anchoring block (9) being provided with a receiving space (12) for holding the elongated member (14) therein, **characterized in that** the lower hook-shaped portion (6, 7, 8) of the hook (3) comprises a hole (10) being bounded all around for leading through the elongated member (14), and in that the lower hook-shaped portion (6, 7, 8) is specifically designed to support the anchoring block (9) such that the portion of the elongated member (14) which is located in the receiving space (12) is linearly aligned with the portion of the elongated member (14) which is located below the receiving space (12).
2. Assembly according to claim 1, in which the lower hook-shaped portion (6, 7, 8) is substantially U-shaped and the support means are formed by the base (7) thereof.
3. Assembly according to claim 2, in which the lower hook-shaped portion (6, 7, 8) is U-formed with right-angled corners, the anchoring block having a substantially straight parallelepiped form.
4. Assembly according to any one of the preceding claims, in which the anchoring block (9) is fittingly accommodated in the lower hook-shaped portion (6, 7, 8).
5. Assembly according to any one of the preceding claims, in which at least in the area adjacent the exit opening of the receiving space (12) the anchoring block (9) is complementarily formed to the area adjacent the hole (10) of the lower hook-shaped portion.
6. Hook (3) for suspending objects such as paintings, pictures and the like on a rail, a panel edge or the like, intended for being arranged in a substantially horizontal way, the hook (3) comprising an upper hook-shaped portion (4, 5, 6) being formed so as to be hooked onto the rail, the panel edge or the like, the hook (3) further comprising a lower hook-shaped portion (6, 7, 8), **characterized in that** the lower hook-shaped portion (6, 7, 8) comprises a

hole (10) being bounded all around and is substantially U-shaped while support means are formed by the base (7) thereof.

7. Hook according to claim 6, in which the lower hook-shaped portion (6, 7, 8) is U-formed with right-angled corners.

Patentansprüche

1. Anordnung zum Aufhängen von Gegenständen wie Gemälden, Bilder oder ähnliches an einer Schiene, an einem Tafelungsrand oder ähnliches, bestimmt um in einer im wesentlichen waagerechten Weise angeordnet zu werden, wobei die Anordnung einen länglichen Teil (14) umfasst, bestimmt um sich in einer im wesentlichen senkrechten Richtung zwischen der Schiene, dem Tafelungsrand oder ähnliches und dem Gegenstand zu erstrecken, und einen Haken (3) mit einem oberen, hakenförmigen Abschnitt (4, 5, 6), gebildet um an der Schiene, an dem Tafelungsrand oder ähnliches gehakt zu werden, wobei der Haken (3) ferner einen unteren, hakenförmigen Abschnitt (6, 7, 8) umfasst, der gebildet ist um einen Verankerungsblock (9) zu stützen, wobei der Verankerungsblock (9) mit einem Aufnahmeraum (12) zum darin Halten des länglichen Teils (14) versehen ist, **dadurch gekennzeichnet**, daß der untere hakenförmige Abschnitt (6, 7, 8) des Hakens (3) ein rundherum begrenztes Loch (10) zum Hindurchführen des länglichen Teils (14) umfasst, und daß der untere, hakenförmige Abschnitt (6, 7, 8) spezifisch ausgebildet ist um den Verankerungsblock (9) derart zu stützen, daß der Abschnitt des länglichen Teils (14), der sich im Aufnahmeraum (12) befindet, linear mit dem Abschnitt des länglichen Teils (14), der sich unterhalb des Aufnahmerraumes (12) befindet, fluchtet.
2. Anordnung nach Anspruch 1, wobei der unteren hakenförmigen Abschnitt (6, 7, 8) im wesentlichen U-förmig ist und die Stützmittel durch den Fuß (7) davon gebildet sind.
3. Anordnung nach Anspruch 2, wobei der unteren hakenförmigen Abschnitt (6, 7, 8) U-förmig mit rechtwinkligen Ecken gebildet ist, wobei der Verankerungsblock ein im wesentlichen rechtes Parallelepipedon bildet.
4. Anordnung nach einem der vorgehenden Ansprüche, wobei der Verankerungsblock (9) passend im unteren, hakenförmigen Abschnitt (6, 7, 8) aufgenommen ist.
5. Anordnung nach einem der vorgehenden Ansprüche, wobei zumindest im Gebiet neben der Ausgangsöffnung des Aufnahmerraumes (12) der

Verankerungsblock (9) komplementär am Gebiet neben dem Loch (10) des unteren, hakenförmigen Abschnitts gebildet ist.

6. Haken (3) zum Aufhängen von Gegenständen wie Gemälde, Bilder oder ähnliches an einer Schiene, an einem Täfelungsrand oder ähnliches, bestimmt um in einer im wesentlichen waagerechten Weise angeordnet zu werden, wobei der Haken (3) einen oberen, hakenförmigen Abschnitt (4, 5, 6), gebildet um an einer Schiene, an einem Täfelungsrand oder ähnliches gehakt zu werden, umfasst, wobei der Haken (3) ferner einen unteren, hakenförmigen Abschnitt (6, 7, 8) umfasst, **dadurch gekennzeichnet**, daß der untere, hakenförmige Abschnitt (6, 7, 8) ein rundherum begrenztes Loch (10) umfasst und im wesentlichen U-förmig ist, während Stützmittel durch den Fuß (7) davon gebildet werden.
7. Haken nach Anspruch 6, wobei der untere, hakenförmige Abschnitt (6, 7, 8) U-förmig mit rechtwinkligen Ecken gebildet ist.

Revendications

1. Ensemble de suspension d'objets tels que des peintures, des oeuvres graphiques et similaires, sur un rail, sur le bord d'un panneau ou similaire, conçu pour être agencé d'une manière pratiquement horizontale, l'ensemble comprenant un élément allongé (14), conçu pour s'étendre dans une direction pratiquement verticale entre le rail, le bord du panneau ou similaire et l'objet, un crochet (3) comprenant une partie supérieure en forme de crochet (4, 5, 6) formée de manière à être accrochée sur le rail, le bord du panneau ou similaire, le crochet (3) comprenant, de plus, une partie inférieure en forme de crochet (6, 7, 8) formée de manière à supporter un bloc d'ancrage (9), le bloc d'ancrage (9) étant muni d'un espace de réception (12) pour maintenir dedans l'élément allongé (14), **caractérisé en ce que** la partie inférieure en forme de crochet (6, 7, 8) du crochet (3) comprend un trou (10) limité de tous côtés pour guider l'élément allongé (14), et en ce que la partie inférieure en forme de crochet (6, 7, 8) est conçue tout spécialement pour supporter le bloc d'ancrage (9) de sorte que la partie de l'élément allongé (14) qui est placée dans l'espace de réception (12) est alignée de façon linéaire avec la partie de l'élément allongé (14) qui est placée au-dessous de l'espace de réception (12).
2. Ensemble selon la revendication 1, dans lequel la partie inférieure en forme de crochet (6, 7, 8) est pratiquement en forme de U, et les moyens supports sont formés par la base (7) de celle-ci.
3. Ensemble selon la revendication 2, dans lequel la partie inférieure en forme de crochet (6, 7, 8) est

réalisée en forme de U avec des coins à angle droit, le bloc d'ancrage ayant une forme pratiquement de parallépipède à angles droits.

4. Ensemble selon l'une quelconque des revendications précédentes, dans lequel le bloc d'ancrage (9) est reçu de façon ajustée dans la partie inférieure en forme de crochet (6, 7, 8).
5. Ensemble selon l'une quelconque des revendications précédentes, dans lequel au moins dans la surface adjacente à l'ouverture de sortie de l'espace de réception (12), le bloc d'ancrage (9) est formé de façon complémentaire à la surface adjacente au trou (10) de la partie inférieure en forme de crochet.
6. Crochet (3) de suspension d'objets tels que des peintures, des oeuvres graphiques et similaires, sur un rail, sur le bord d'un panneau ou similaire, conçu pour être agencé d'une manière pratiquement horizontale, le crochet (3) comprenant une partie supérieure en forme de crochet (4, 5, 6) formée de manière à être accrochée sur le rail, sur le bord de panneau ou similaire, le crochet (3) comprenant, de plus, une partie inférieure en forme de crochet (6, 7, 8), **caractérisé en ce que** la partie inférieure en forme de crochet (6, 7, 8) comprend un trou (10) limité de tous côtés et est pratiquement en forme de U, tandis que des moyens supports sont formés par la base (7) de celle-ci.
7. Crochet selon la revendication 6, dans lequel la partie inférieure en forme de crochet (6, 7, 8) est réalisé en forme de U avec des coins à angle droit.

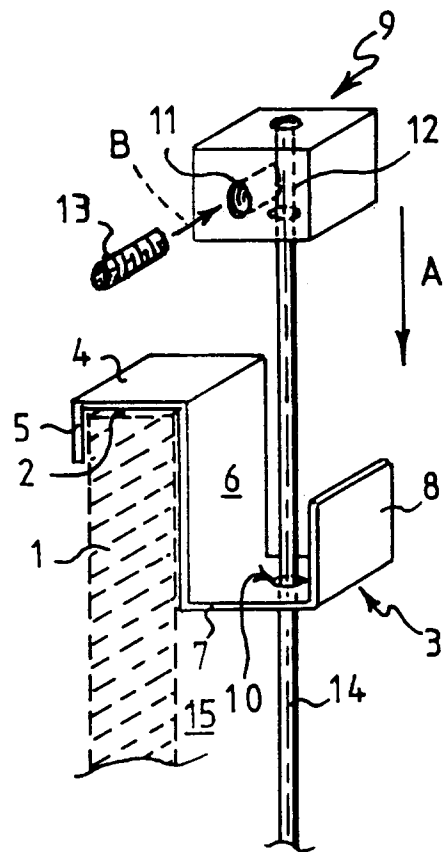


FIG.1