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(54) **Mounting system**

Befestigungssystem

Système de montage

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(56) References cited:
GB-A- 2 267 526

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Description

[0001] This invention relates to a mounting system for a window covering product, such as a blind or shade arrangement, particularly to affix such a product to a ceiling or wall or to an architectural opening, such as a door or window frame.

[0002] One form of mounting system includes a mounting bracket as disclosed in GB-B-2,267,526. The bracket comprises a main body portion with a mounting aperture extending through it, a first inturned flange on one edge of the main body portion, and a second inturned flange on the opposite edge of the main body portion. The inturned flanges can be attached to a rail of a window covering product, and a fixing means, such as a mounting screw or nail, can pass through the mounting aperture to affix the bracket to a ceiling, wall or door or window frame.

[0003] After this mounting bracket has been affixed to, or in, a building structure, such as a ceiling or wall or an architectural opening, with a fixing means, such as an ordinary screw, inserted through the mounting aperture into the building structure, the rail, which is usually part of a window covering product, could be affixed to the mounting bracket to support blinds or shades or even curtains. Usually, two or more brackets were affixed to retain properly the rail and with it the window covering product.

[0004] To achieve a desired orientation and proper operation of the window covering product, the building structure preferably had to have a fixation surface perpendicular to the desired orientation of the window covering product and be capable of accommodating fixation of the main body of the mounting bracket. If the building structure had a sloping fixation surface, such as for example exists with skylight frames, one could have provided one or more wedges between the fixation surface and the main body portion of the bracket, to provide the desired orientation for the window covering product.

[0005] A disadvantage of the known bracket has been that the fixation surface of the building structure has preferably had to be perpendicular to the desired orientation of the window covering product, to enable uncomplicated fixation of the mounting bracket.

[0006] According to the present invention there is provided a mounting system for mounting the headrail or bottom rail of a window covering product to a fixation surface, including a mounting bracket comprising a body portion and a mounting aperture in said body portion, opposed edges of said body portion being adapted to engage said rail, fixing means engaged in said mounting aperture and adapted to mount the bracket on a building structure, characterised in that said mounting aperture is in or adjacent to a convex curved surface of either said body portion or of said fixing means, thereby enabling said body portion and the rail supported thereby to be adjusted in position and at an angle determined by the position of said fixing means or body portion, re-

spectively relative to said curved surface.

[0007] The invention also contemplates a mounting system for affixing the headrail or bottom rail of a window covering product to a fixation surface of a building structure, wherein the mounting bracket comprises: a main body portion having a first mounting aperture therein and opposite edges of the main body portion are adapted to engage the rail; and fixing means connected to the first mounting aperture for affixing the bracket to the fixation surface of the building structure, characterized by:

- a convex curved surface on either the main body portion or the fixing means, containing a circumferentially elongate slot in communication with the first mounting aperture, thereby enabling the main body portion and the rail supported thereby to be positioned at an angle, relative to the fixation surface, determined by the position of respectively either the fixing means or the main body portion circumferentially about the convex curved surface.

[0008] Such a bracket allows easy fixation of a rail of a window covering product to a sloping fixation surface of a building structure.

[0009] In accordance with one aspect of this invention: the convex curved surface, containing the elongate slot, is provided on the main body portion of the bracket; the first mounting aperture is in the elongate slot; the fixing means extends through the elongate slot and engages the fixation surface, so that the main body portion is convex relative to the fixation surface; and preferably, the elongate slot extends transversely to the opposite edges of the main body portion (which engage the rail of the window covering product). Advantageously, the main body portion of this bracket is formed of arcuately curved sheet material whereby one face of the main body portion is its convex curved surface. Such a bracket can be easily adjusted to a desired orientation relative to a sloping fixation surface of a building structure.

[0010] In accordance with another aspect of the mounting system of the invention, the fixing means comprises:

- a hollow elongated support member having, on one circumferential side, the convex curved surface and the elongate slot adjacent to the first mounting aperture of the main body portion;
- first mounting means, on a substantially opposite circumferential side of the support member, to affix the support member to a sloping fixation surface of a building structure, so that the convex curved surface is concave relative to the fixation surface; and
- second mounting means, passing through the mounting aperture in the main body portion and through the elongate slot in the support member, to affix the main body to the support member, preferably with the opposite edges of the main body portion being transverse to the elongate slot.

[0011] Advantageously, the support member is tubular, and the second mounting means comprises a second mounting aperture for the passage of a conventional mounting screw. Advantageously, the circumferentially elongate slot in the support member is also enlarged, opposite the second mounting aperture, so that a screw driver can readily access the mounting screw in the second mounting aperture.

[0012] In accordance with the invention, the main body portion is also advantageously made of a resilient material and one edge is provided with an outwardly extending release member, enabling the main body portion to be flexed to disengage the one edge from the rail of the window covering product.

[0013] Further aspects of the invention will be apparent from the detailed description below of particular embodiments and the drawings thereof, in which:-

Figure 1 is an isometric view of a mounting bracket known from the prior art.

Figure 2 is an isometric view of a first embodiment of a mounting bracket of this invention.

Figure 3 is a front elevation of the mounting bracket of Figure 2.

Figure 4 is a cross-sectional view of a building structure with the mounting bracket of Figures 2 and 3 mounted thereon.

Figure 5 is an isometric view of a second embodiment of a mounting bracket of this invention.

Figure 6 is a plan view of the tubular support member of the bracket of Figure 5.

Figure 7 is a schematic end elevation of the bracket of Figure 5.

[0014] In the Figures and the following description, corresponding parts are referred to by similar reference signs which differ by an "a" in Figure 1 from those in Figures 2-4 and which differ by "100" in Figure 5-7 from those in Figures 2-4.

[0015] Figure 1 shows a mounting bracket 10a, known from the prior art. The bracket 10a has a substantially flat, main or central body portion 20a, having a mounting aperture 22a extending through it. A first edge 24a and a second edge 26a, on opposite sides of the main body portion 20a, have respectively a first intumed flange 30a and a second intumed flange 40a. The mounting aperture 22a extends transversely to the edges 24a and 26a and can accommodate a fixing means, such as a conventional mounting screw, to affix the main body portion 20a to a fixation surface on a building structure, such as a ceiling or a wall or an architectural opening such as a door or window frame. The intumed flanges 30a and 40a can be used to affix a rail (e.g., a head rail of a window covering product) to the bracket 10a, with the flanges extending in the same direction as the rail.

[0016] When the bracket 10a is made of resilient material, the second intumed flange 40a is provided with

an outturned member 42a. Such resilient material allows the rail to be clipped or slid onto the intumed flanges 30a and 40a of the bracket 10a, so that the outturned member 42a can thereafter be used to facilitate the separation of the second intumed flange 40a from the rail.

[0017] Heretofore, in order to obtain a desired orientation and proper operation of a window covering product, a building structure preferably had to have a fixation surface perpendicular to the desired orientation of the window covering product and be capable of accommodating fixation of the main body portion 20a of the known mounting bracket 10a. If the building structure had a sloping surface, as for example existed with skylight frames, one might have to apply one or more wedges between the main body portion 20a of the bracket and the fixation surface to provide the desired orientation to the window covering product, which would require a complex and complicated installation.

[0018] Figures 2-4 show one embodiment of a mounting bracket 10 in accordance with this invention. Although there are many similarities with the known bracket 10a, the main body portion 20 of the mounting bracket 10 in accordance with the invention is formed with a profile that is a convex curve as shown in Figures 3 and 4. As a result, the upper surface 21 of the main body portion 20, as shown in Figure 2, is a convex curved surface. This convex curved surface 21 of the main body portion 20 is intended to be convex relative to the fixation surface 70, to be affixed to the bracket 10 (as shown in Figure 4), but concave relative to the rail to be fixed to the flanges 30,40 of the main body portion 20 (as also shown in Figure 4). This convex curved surface 21 of the main body portion 20 is provided with a mounting aperture 22 that is a circumferentially elongate slot, extending through the main body portion transversely of the first and second edges 24,26 on opposite sides of the main body portion 20. Intumed flanges 30 and 40, on the opposite sides of the main body portion 20, enable the bracket 10 to be affixed to a rail of a window covering, with the flanges extending in the lengthwise direction of the rail.

[0019] The lower surface 27 of the main body portion 20 is preferably parallel to the upper surface 21 and therefore is also a concave curved surface. However, it is not necessary that the lower surface 27 be parallel to the upper surface 21 or be also a convex curved surface.

[0020] When the bracket 10 of this invention has been fixed to a sloping fixation surface (70 in Figure 4), a desired orientation of a window covering product can be obtained by moving the mounting bracket 10 on a fixation means 52 (in Figure 4), inserted through the circumferentially elongate, mounting aperture 22, along the convex curved surface 21 of the main body portion 20 and then fixing the bracket 10 and its intumed flanges 30 and 40 at the desired orientation with the fixing means.

[0021] As shown in Figure 3, the bracket 10 and its main body portion 20 are preferably formed of a sheet

material, e.g., metal, which is arcuately curved along a radius 60 having a centre point 62, to define the convex curved surface 21 as shown in Figures 3 and 4. The circumferentially elongate, mounting aperture 22 has ends 64, 66, which are equally spaced from a centre line 68 and determine a maximum angle between the main body portion 20 and a given fixation surface of a building structure. Although the bracket 10 has a smooth convex curve in its main body portion 20, any substantially curved surface will work at least to some extent. For example, the main body portion 20 can have a plurality of rectangular facets arranged perpendicularly to the circumferentially elongate, mounting aperture 22, these collectively defining a convex curved surface. Such an embodiment provides certain predetermined orientations of the mounting bracket and assures most optimal fixation. Clearly the mounting bracket 10 does not need to have a symmetrical shape, nor does the mounting aperture 22 need to have a central location in the main body 20.

[0022] Figure 4 shows a fixation surface 70 of a building structure with the mounting bracket 10 of Figures 2 and 3 fixed in place. The bracket 10 holds a rail 50 and is provided with a fixing means, here a screw 52. The rail 50, which can be part of any window covering product, is only schematically shown -- without any operating means or shade or blind body. The fixation surface shown, by way of example, is a sloped ceiling 70 with a window arrangement 80, having a frame 82 accommodating a pane 84, and a pane lath 86. The mounting bracket 10 is fixed with the screw 52 through the mounting slot 22 into the ceiling 70, so that a window covering product can be suspended parallel to the pane 84 on the ceiling 70 that is sloped in a direction transverse of the length of the rail of the window covering product.

[0023] Alternatively, the main body portion 20 and its circumferentially elongate, mounting aperture 22 can be curved in other directions. For example, their convex curvature can be parallel to, rather than transverse of, the inturned flanges 30 and 40, on the opposite sides of the main body portion 20. This would allow the bracket 10 to be affixed to a fixation surface 70 that is uneven or sloped in the lengthwise, rather than the transverse, direction of the rail of the window covering, to be attached to the inturned flanges 30 and 40 of the bracket 10.

[0024] Furthermore, the bracket 10 can be used to affix other parts of a window covering product, such as a bottom rail. In skylight applications, a window covering product may have both a head rail and a bottom rail, which can be both easily affixed with the bracket 10, even to frames having sloping surfaces.

[0025] Figures 5 -7 show an alternative mounting bracket 110 of this invention comprising an elongate hollow support member 111 and a main body portion 120. The support member 111 preferably is generally tubular and therefore has a profile with a convex curved outer surface 112 on a first circumferential side 113, adjacent

to the main body portion 120, as shown in Figure 7. As shown in Figure 7, this convex curved surface 112 of the support member 111 is intended to be convex relative to the main body portion 120, to be affixed to the rail (not shown), but concave relative to the fixation surface 170 (not shown), to be fixed to an opposite second circumferential side 115 of the support member 111. The convex curved surface 112 of the support member 111 has a circumferentially elongate slot 114 extending through it, adjacent to the main body portion 120. The elongate slot 114 can extend circumferentially around the support member 111 for up to about 180°.

[0026] The inner surface 117 of the support member 111, on its first circumferential side 113, is preferably parallel to the outer surface 112 and therefore is also a concave curved surface. However, it is not necessary that the inner surface 117 be parallel to the outer surface 112 or be also a convex curved surface.

[0027] As best seen in Figure 7, the second circumferential side 115 of the support member 111 is mounted on a fixation surface 170 of a building structure by means of a conventional mounting screw 116. The mounting screw 116 passes through a first mounting aperture 118 in the second side 115 of the support member 111 and into the fixation surface 170. Preferably, the first and second sides 113 and 115 of the support member 111 are on substantially opposite circumferential sides of the support member 111.

[0028] The main body portion 120 of the mounting bracket 110 preferably is generally similar to the main body portion 20a of the known bracket 10a of Figure 1 but can also be like the main body portion 20 of the bracket 10 of Figures 2-4. A second mounting aperture 122, which can be circular or elongate, extends through the main body portion 120. Inturned flanges 130 and 140, on opposite sides of the main body portion 120, extend in a direction transverse to the elongate slot 114 in the support member 111. The inturned flanges 130 and 140 are adapted to be affixed to a rail of a window covering in the lengthwise direction of the rail, so that the rail extends in a direction transverse of the slope of the fixation surface 170.

[0029] Passing through the second mounting aperture 122 and through the elongate slot 114 of the support member 111, on its first circumferential side 113, is a conventional fixing bolt 152, threaded into a nut 154 within the support member. The nut 154 has a female screw thread cooperating with the thread of the bolt 152. The nut 154 preferably has a rectangular shape or at least a pair of flats on opposite sides and is dimensioned to fit closely within the support member 111, as shown in Figure 7, so that the nut 154 will not rotate when the bolt 152 is threaded through it.

[0030] By loosening the fixing bolt 152 relative to the nut 154, the position of the bracket 110 can be adjusted along the circumferential convex outer surface 112 of the support member 111 by adjusting the position of the

bolt 152 within the elongate slot 114. The bolt 152 can thereafter be tightened again in any adjusted position to secure the main body portion 120 to the support member 111 and thereby to the fixation surface 170 at a desired relative angular orientation.

[0031] Aligned with the first mounting aperture 118, for the passage of the mounting screw 116, is an enlarged area 119 in the slot 114 as seen in Figures 5-7. A screw driver can readily access the mounting screw 116 in the first mounting aperture 118, through the enlarged area 119 in the slot 114, to affix the support member 120 of the bracket 110 to a fixation surface 170 of a building structure.

[0032] As with the first embodiment of the bracket 10, the outer surface of the support member 111 of the bracket 110 can also have a plurality of rectangular facets collectively defining the convex curved outer surface 112 on its first circumferential side 113. Likewise, the main body portion 120 can also have its intumed flanges 130 and 140 extend in the direction of the elongate slot 114 in the support member 111. This would allow the bracket 110 and the rail of a window covering, mounted on the bracket, to be affixed to a fixation surface 170 that is uneven or sloped in the lengthwise, rather than the transverse, direction of the rail.

[0033] This invention is, of course, not limited to the above-described embodiments which may be modified without departing from the scope of the invention or sacrificing all of its advantages. In this regard, the terms in the foregoing description, such as "convex", "concave", "upper", "lower", "bottom", "top", "inner", "outer" and "end", have been used only as relative terms to describe the relationships of the various elements of the mounting bracket of the invention.

Claims

1. A mounting system for mounting the headrail or bottom rail of a window covering product to a fixation surface, including a mounting bracket (10) comprising a body portion (20) and a mounting aperture (22) in said body portion, opposed edges (24,26) of said body portion being adapted to engage said rail, fixing means engaged in said mounting aperture (22) and adapted to mount the bracket on a building structure, **characterised in that** said mounting aperture is in or adjacent to a convex curved surface (21,112) of either said body portion or of said fixing means, thereby enabling said body portion and the rail supported thereby to be adjusted in position and at an angle determined by the position of said fixing means or body portion, respectively relative to said curved surface.
2. A mounting system according to claim 1, **characterised in that** said curved surface (21) is formed on said body portion (20), and said mounting aper-

ture (22) is in the form of an elongate slot extending circumferentially of said curved surface.

3. A mounting system according to claim 2, **characterised in that** said elongate slot (22) extends transverse to said edges.
4. A mounting system according to claim 2 or 3, **characterised in that** the body portion (20) is formed of arcuately curved sheet material to form said convex curved surface (21) on the one face thereof.
5. A mounting system according to claim 1, **characterised in that** said fixing means comprises a support member (111) formed with said convex curved surface (112), means (116) to mount said support member on a building structure, an elongate slot (114) formed in said convex curved surface (112) of said support member, and a bolt (152) passing through said mounting aperture in said body portion, through the elongate slot in the support member and engaging a nut (154) located within the support member.
6. A mounting system according to claim 5, **characterised in that** the support member is in the form of a tubular member.
7. A mounting system according to claim 6, **characterised in that** the support tube has, opposite the elongate slot (114), a hole (118) for the passage of a mounting screw.
8. A mounting system according to claim 7, **characterised in that** the elongate slot (114) in the support tube is provided with an enlargement (119), opposite the hole, for a screwdriver to obtain access to the mounting screw (116).
9. A mounting system according to any preceding claim, **characterised in that** the body portion is made of resilient material and one of the edges is provided with an outwardly extending release member, enabling the body portion to be flexed to disengage that edge from the rail.
10. A mounting system according to any preceding claim, **characterised in that** the body portion is provided with a plurality of rectangular facets arranged perpendicular to the elongate slot, the facets collectively forming said convex curved surface.

Patentansprüche

1. Befestigungssystem für die Befestigung der Kopf- oder Bodenschiene eines Fensterabdeckungsprodukts an einer Befestigungsfläche, umfassend ei-

nen Befestigungsträger (10) mit einem Körperabschnitt (20) und einer Befestigungsöffnung (22) in dem genannten Körperabschnitt, einander gegenüber angeordnete Kanten (24, 26) des genannten Körperabschnitts, die zum Eingriff mit der genannten Schiene geeignet sind, Befestigungsmittel, die sich im Eingriff mit der genannten Befestigungsöffnung (22) befinden und mit denen der genannte Träger an einer Gebäudekonstruktion befestigt werden kann, **dadurch gekennzeichnet, daß** sich die genannte Befestigungsöffnung innerhalb oder in der Nähe einer konvex gebogenen Fläche (21, 112) entweder des genannten Körperabschnitts oder der genannten Befestigungsmittel befindet, wodurch es möglich ist, daß der genannte Körperabschnitt und die durch diesen gehaltene Schiene in ihrer Position und in ihrem Winkel verstellt werden können, der durch die Position der genannten Befestigungsmittel bzw. des genannten Körperabschnitts im Verhältnis zu der genannten gebogenen Fläche bestimmt wird.

2. Befestigungssystem gemäß Anspruch 1, **dadurch gekennzeichnet, daß** die genannte gebogene Fläche (21) auf dem genannten Körperabschnitt (20) ausgebildet ist und die genannte Befestigungsöffnung (22) die Form eines länglichen Schlitzes hat, der sich entlang des Umfangs der genannten gebogenen Fläche erstreckt.

3. Befestigungssystem gemäß Anspruch 2, **dadurch gekennzeichnet, daß** sich der genannte längliche Schlitz (22) quer zu den genannten Kanten erstreckt.

4. Befestigungssystem gemäß Anspruch 2 oder 3, **dadurch gekennzeichnet, daß** der genannte Körperabschnitt (20) aus gekrümmt gebogenem Plattenmaterial gebildet wird, um die genannte konvex gebogene Fläche (21) auf der einen Seite desselben zu bilden.

5. Befestigungssystem gemäß Anspruch 1, **dadurch gekennzeichnet, daß** die genannten Befestigungsmittel ein Stützglied (111), das mit der genannten konvex gebogenen Fläche (112) geformt ist, Mittel (116) zur Befestigung des genannten Stützglieds an einer Gebäudekonstruktion, einen länglichen Schlitz (114), der in der genannten konvex gebogenen Fläche (112) des genannten Stützglieds vorgesehen ist, und eine Schraube (152), die durch die genannte Befestigungsöffnung im genannten Körperabschnitt und durch den länglichen Schlitz im Stützglied hindurchgeführt wird und mit einer Mutter (154) in Eingriff gebracht wird, welche sich innerhalb des Stützglieds befindet, umfassen.

6. Befestigungssystem gemäß Anspruch 5, **dadurch**

gekennzeichnet, daß das Stützglied die Form eines röhrenförmigen Glieds hat.

7. Befestigungssystem gemäß Anspruch 6, **dadurch gekennzeichnet, daß** das Stützrohr gegenüber dem länglichen Schlitz (114) eine Öffnung (118) hat, durch die eine Befestigungsschraube hindurchgeführt wird.

8. Befestigungssystem gemäß Anspruch 7, **dadurch gekennzeichnet, daß** der längliche Schlitz (114) im Stützrohr mit einer Vergrößerung (119) gegenüber der Öffnung versehen ist, um mit einem Schraubendreher Zugang zur Befestigungsschraube (116) zu erhalten.

9. Befestigungssystem gemäß einem der vorstehenden Ansprüche, **dadurch gekennzeichnet, daß** der Körperabschnitt aus einem elastischen Material hergestellt wird, und eine der Kanten mit einem nach außen weisenden Löseglied versehen ist, mit dem der Körperabschnitt elastisch verbogen werden kann, um diese Kante von der Schiene zu lösen.

10. Befestigungssystem gemäß einem der vorstehenden Ansprüche, **dadurch gekennzeichnet, daß** der Körperabschnitt mit mehreren rechteckigen Facetten versehen ist, die senkrecht zum länglichen Schlitz angeordnet sind, wobei die Facetten insgesamt die genannte konvex gebogene Fläche bilden.

Revendications

1. Système de fixation pour fixer le rail de guidage ou le rail inférieur d'un produit de couverture de fenêtre à une surface de fixation comportant un crochet de montage (10) comprenant une partie de corps (20) et une ouverture de fixation (22) dans ladite partie de corps, les bords opposés (24, 26) de ladite partie de corps étant adaptés pour engager ledit rail, des moyens de fixation engagés dans ladite ouverture de fixation (22) et adaptés pour monter le crochet sur une structure d'immeuble, **caractérisé en ce que** ladite ouverture de fixation se trouve dans, ou adjacente à une surface recourbée convexe (21, 112), soit de ladite partie de corps, soit desdits moyens de fixation, permettant de ce fait à ladite partie de corps et au rail ainsi supporté d'être ajustés en place et suivant un angle déterminé par la position desdits moyens de fixation ou de ladite partie de corps, respectivement par rapport à ladite surface recourbée.

2. Système de fixation selon la revendication 1, **caractérisé en ce que** ladite surface recourbée (21) est formée sur ladite partie de corps (20), et en ce que

ladite ouverture de fixation (22) se présente sous la forme d'une fente en longueur s'étendant sur 1 périphérie de ladite surface recourbée.

3. Système de fixation selon la revendication 2, **caractérisé en ce que** ladite fente allongée (22) s'étend transversalement aux dits bords. 5

4. Système de fixation selon la revendication 2 ou 3, **caractérisé en ce que** la partie de corps (20) est formée d'un matériau en tôle recourbée en forme d'arc pour former ladite surface convexe (21) sur l'une de ses faces. 10

5. Système de fixation selon la revendication 1, **caractérisé en ce que** lesdits moyens de fixation comprennent un élément de support (111) formé avec ladite surface recourbée convexe (112), des moyens (116) pour fixer ledit élément de support sur une structure d'immeuble, une fente de forme allongée (114) formée dans ladite surface recourbée convexe (112) dudit élément de support, et un boulon (152) passant à travers ladite ouverture de fixation dans ladite partie de corps, à travers la fente de forme allongée dans l'élément de support et s'engageant avec un écrou (154) placé à l'intérieur de l'élément de support. 15
20
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6. Système de fixation selon la revendication 5, **caractérisé en ce que** l'élément de support se présente sous la forme d'un élément tubulaire. 30

7. Système de fixation selon la revendication 6, **caractérisé en ce que** le tube de support possède, opposé à la fente de forme allongée (114), un trou (118) destiné au passage de la vis de fixation. 35

8. Système de fixation selon la revendication 7, **caractérisé en ce que** la fente de forme allongée (114) du tube de support est prévue avec un agrandissement (119), opposé au trou, destiné à un tournevis pour donner accès à la vis de fixation (116). 40

9. Système de fixation selon l'une quelconque des revendications précédentes, **caractérisé en ce que** la partie de corps est constituée d'un matériau élastique et **en ce que** l'un des bords est pourvu d'un élément de libération s'étendant vers l'extérieur, permettant à la partie de corps d'être pliée pour désengager ce bord du rail. 45
50

10. Système de fixation selon l'une quelconque des revendications précédentes, **caractérisé en ce que** la partie de corps est dotée d'une pluralité de facettes rectangulaires agencées perpendiculairement à la fente de forme allongée, les facettes constituant collectivement ladite surface recourbée convexe. 55

Fig.1.

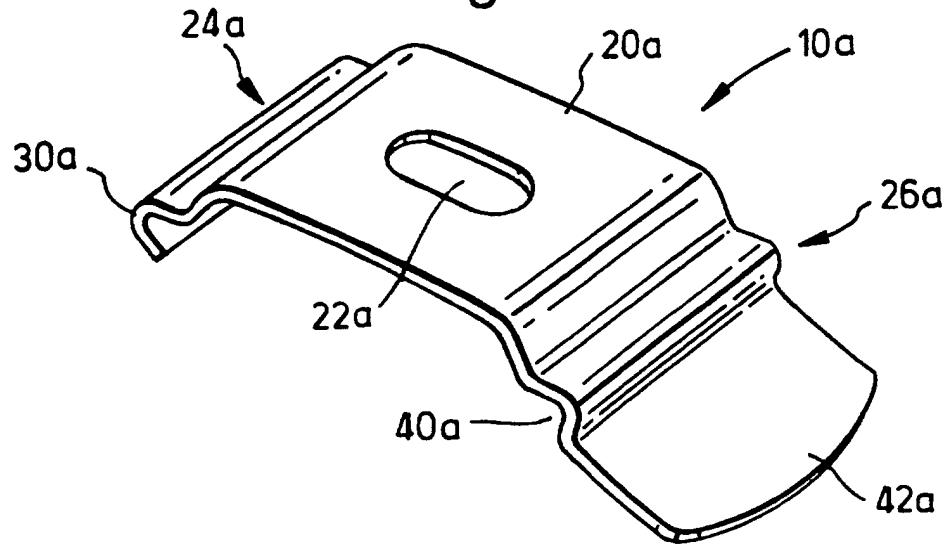


Fig.2.

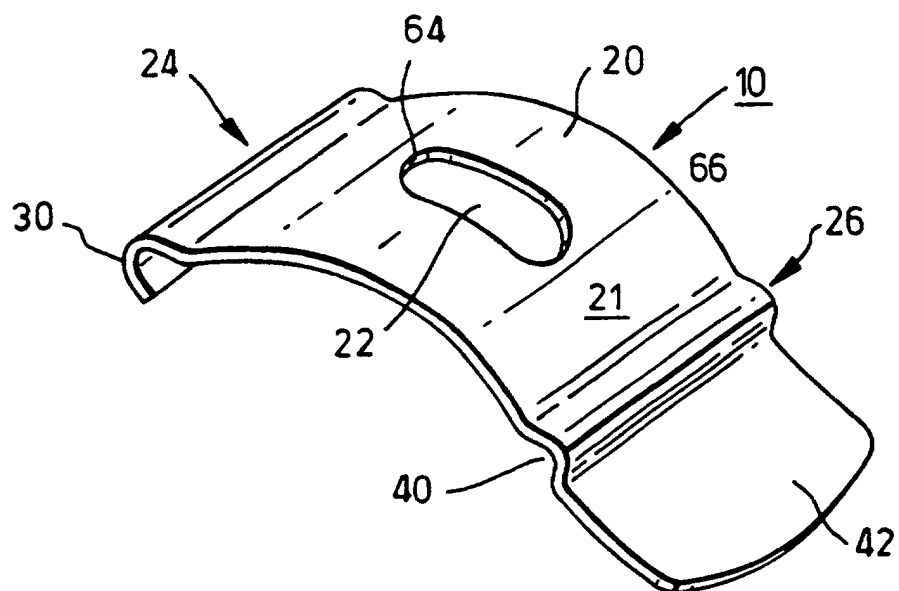


Fig.3.

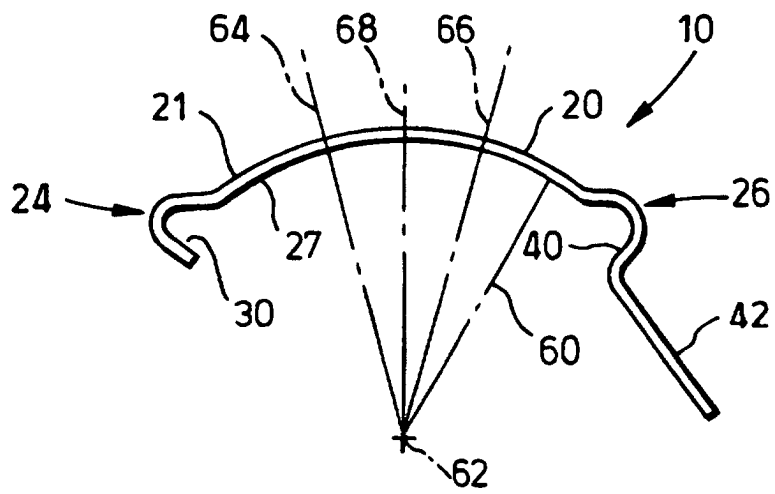


Fig.4.

