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(54) **WALL CLADDING**

WANDVERKLEIDUNG

REVÊTEMENT MURAL

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(56) References cited:

WO-A2-2008/064896 DE-A1- 4 418 291
DE-A1- 19 620 134 FR-A2- 2 121 393
KR-B1- 101 462 789 US-B2- 6 634 824

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Description

[0001] The present invention relates to a wall cladding comprising two walls which adjoin each other in a common rib at an angle, each wall comprising:

- bearing sections, one end of which ends at the location of the rib; and
- wall cladding elements which are attached to the bearing sections, thereby cladding these bearing sections;

the wall cladding furthermore comprising a protective corner profile in order to form the rib.

[0002] Such wall claddings are typically used to clad walls, such as internal or external walls. However, it is also possible to configure such wall claddings in such a way that they can be used to form freestanding walls.

[0003] In this case, the wall cladding elements of such wall claddings may assume all kinds of forms, from tiles to slats, and may be made from all kinds of materials, such as wood, plastic, aluminium, etc.

[0004] In their simplest form, the protective corner profiles of such wall claddings are configured as angle profiles, but may also assume all kinds of other shapes. These may be, for example, rounded or profiled or provided with decorations, etc.

[0005] FR 2 121 393 A2, DE 196 20 134 A1, DE 44 18 291 A1 and WO 2008/064896 A2 describe and illustrate similar wall claddings, but without said protective corner profiles which are nevertheless often used in practice. In WO 2008/064896 A2, the wall cladding elements overlap each other at said corners. However, in practice, a protective corner profile is often provided in order to partly protect the wall cladding elements at the location of such a corner.

[0006] At the location of said corners, such protective corner profiles are in this case typically nailed to or screwed to or glued to a structure situated underneath or to the wall cladding elements or to the bearing sections. However, it is not easy to position these protective corner profiles accurately with respect to the rest of the wall cladding. The wall cladding elements themselves are usually not a good base to attach further components to. Neither is the structure situated underneath always suitable to attach this protective corner profile to. In many cases, the bearing sections themselves cannot be placed such that they accurately adjoin the respective corner or be positioned at a fixed distance therefrom, so that it is difficult to position such a corner section accurately with respect thereto. Often, the bearing sections also inhibit a possible attachment to a structure situated underneath.

[0007] The wall cladding according to GB2012342A shows the features of the preamble of claim 1.

[0008] It is an object of the present invention to provide such a wall cladding by means of which such a protective profile can be accurately attached in a relatively simple

manner with respect to the rest of the wall cladding.

[0009] This object of the invention is achieved by providing a wall cladding according to claim 1.

[0010] According to the invention, such a protective corner profile is now attached to corner attachment elements which are provided for the purpose and are displaceable with respect to corresponding bearing sections of only one of the walls. Due to this displaceability, this protective corner profile can be accurately positioned with respect to the corner in all kinds of circumstances, even where the bearing section itself cannot be fitted as far as the corner or up to a certain distance therefrom.

[0011] Said length direction of the bearing section is a direction viewed at the location of said corner attachment element. In practice, the bearing section may for example also be of a curved design.

[0012] The attachment elements of the protective corner profile preferably form an integral part of this protective corner profile. To this end, the protective corner profile may for example be manufactured by extrusion, with the attachment elements thereof being manufacturable by extrusion.

[0013] However, the attachment elements of the protective corner profile could also be designed as separate elements which are attached to this protective corner profile.

[0014] Preferably, the corner attachment element and the protective corner profile are mutually displaceable along the length direction of the rib in the mutually coupled position. The protective corner profile may then be attached first to the corner attachment element, following which the position of this protective corner profile may be adjusted along this length direction of the rib, if necessary. Such a displaceability also makes quick installation possible, with tolerances and differences in thermal expansions being readily absorbable.

[0015] The displaceable attachments are in each case preferably constructed as slideable attachments.

[0016] In a preferred embodiment, the bearing section comprises a cavity having an access opening at said end, in which the attachment body of the corner attachment element is at least partly fittable in order to attach the corner attachment element to the bearing section. By providing the bearing section with such a cavity, it is possible to attach this corner attachment element to the bearing section in a simple manner in such a way that this corner attachment element does not inhibit the attachment of the wall cladding elements to this bearing section.

[0017] Preferably, such a bearing section may be manufactured, for example, by extrusion, in which case this cavity extends along the entire length of this bearing section.

[0018] In a specific embodiment, the attachment elements are mutually coupleable by means of a form-fitting.

[0019] With a form-fitting, a part of the attachment elements of the protective corner profile or the corner attachment element may be mounted in a cavity of the attachment elements of the corner attachment element or

the protective corner profile, respectively, with the shape of this part being such that this part is locked in the cavity in the directions desired for attachment. These directions are directions in which the protective corner profile, in use, is typically subjected to load at the location of this connection.

[0020] More specifically, the corner attachment element may to this end be provided with a fitting slot or fitting rib as fitting element and the protective corner profile may be provided with a corresponding fitting rib or fitting slot as fitting element, wherein the fitting rib is fittable in the corresponding fitting slot in a form-fitting manner.

[0021] In a preferred embodiment, the attachment elements are mutually coupleable by means of a click-fit connection. Such a click-fit connection allows a particularly quick mutual connection. Such a click-fit connection is in this case preferably constructed in a direction at right angles to the rib.

[0022] In order to produce such a click-fit connection, the protective corner profile may, more specifically, comprise a fitting rib with a widened head as fitting element and the corner attachment element may comprise a corresponding elastically displaceable fitting rib which partly delimits a fitting slot as fitting element in order to arrange the widened head therein. This elastically displaceable fitting rib is then preferably provided with an undercut, so that, when the fitting rib of the protective corner profile is fitted in the fitting slot of the corner attachment element, this elastically displaceable fitting rib is forced away by means of the widened head and returns, so that the head of the protective corner profile engages behind the undercut in the coupled position of the protective corner profile and the corner attachment element. In this case, such an undercut prevents the fitting rib of the protective corner profile from coming loose again, because the widened head engaged therebehind.

[0023] Alternatively or in addition, the protective corner profile may comprise such a fitting slot which is partly delimited by an elastically displaceable fitting rib and the corner attachment element may comprise a corresponding fitting rib having a widened head.

[0024] Preferably, said fitting slot of the corner attachment element is delimited on either side by such an elastically displaceable fitting rib.

[0025] It is then possible to provide the protective corner profile with two corresponding fitting ribs having widened heads, both of which may be fitted in this fitting slot together. These fitting ribs of the protective corner profile may, if desired, also be of an elastically displaceable design. For the sake of simplicity of installation, preferably only one corresponding fitting rib with widened head is provided so as to be fittable in this fitting slot.

[0026] Such elastically displaceable fitting ribs, which together delimit a fitting slot, are preferably of a symmetrical design together with the fitting slot which they delimit. The fitting rib with a widened head of the protective corner profile is then also preferably of a symmetrical design.

[0027] Preferably, the corner attachment element comprises several such fitting slots which, viewed in the fitted position, are arranged distributed at right angles to the rib. In this case, the protective corner profile preferably comprises several corresponding fitting ribs with a widened head, so that this protective corner profile can be fixed with respect to the corner attachment element at several positions simultaneously in order to achieve a strong connection.

[0028] A corner attachment element with a said elastically displaceable fitting rib furthermore preferably comprises a guide element which is arranged adjacent to the elastically displaceable fitting rib or forms part thereof in order to guide the widened head of the fitting rib from the protective corner profile towards the fitting slot during coupling of the protective corner profile and the corner attachment element.

[0029] If such a corner attachment element is provided with several adjacent fitting slots which are each partly delimited by adjacent elastically displaceable fitting ribs, then the guide element may advantageously be configured as a guide arc which is arranged between these two adjacent elastically displaceable fitting ribs. Such a guide arc prevents the fitting rib of the protective corner profile from inadvertently being arranged between both adjacent fitting ribs.

[0030] The attachment elements of a wall cladding according to the present invention are furthermore preferably mutually coupleable along a direction at an angle with respect to each of the two walls.

[0031] In a particular embodiment, the wall cladding elements are configured as slats. Such slats may in this case be placed horizontally or vertically or obliquely. Such slats may be manufactured, for example, by extrusion. Attachment elements by means of which these slats can be attached to the bearing section can then be manufactured by extrusion at the same time.

[0032] The protective corner profile is furthermore preferably provided with a protective leg in order, in the fitted position, to partly overlap said wall cladding elements.

[0033] By means of such a protective leg and the displaceability along the length direction of the bearing section, it is possible for the protective corner profile with this protective leg to more or less overlap the adjacent wall cladding elements. In this way, unattractive openings between the protective corner profile and the adjacent wall cladding elements can be prevented.

[0034] The corner attachment element is preferably made of plastic. This may be performed, for example, by injection-moulding. This corner attachment element may be made from one plastic or from several plastics. The plastic is preferably chosen such that it can readily absorb thermal expansion from other materials and that it is easy to construct elastically displaceable fitting ribs therefrom.

[0035] The present invention will now be described in more detail by means of the following detailed description of some preferred wall claddings according to the present invention. The sole aim of this description is to give illus-

trative examples and to indicate further advantages and features of these wall claddings and can therefore by no means be interpreted as a limitation of the area of application of the invention or of patent rights defined in the claims.

[0036] In this detailed description, reference numerals are used to refer to the attached drawings, in which:

- Fig. 1 shows a part of a slatted wall (1) according to the present invention in perspective;
- Fig. 2 shows a part of a bearing section (5) with an attached structure attachment element (17), a corner attachment element (8) and a part of the protective corner profile (7) of the slatted wall (1) from Fig. 1 separately in cut-away perspective;
- Fig. 3 shows a part of a bearing section (5) and an attached structure attachment element (17) of the slatted wall (1) from Fig. 1 separately in perspective;
- Fig. 4 shows a corner attachment element (8) of the slatted wall (1) from Fig. 1 separately in perspective;
- Fig. 5 shows a part of the protective corner profile (7) of the slatted wall from Fig. 1 separately in perspective;
- Fig. 6 shows a part of the wall cladding (1) from Fig. 1 separately in top view.

[0037] The slatted wall (1) illustrated in the figures comprises two walls (2, 3) which adjoin each other at an angle (α) in a common rib (4). Here, these walls (2, 3) extend substantially vertically and substantially straight. However, such walls could also be configured to be substantially curved. These walls could also be arranged at an angle. One of these walls may also be arranged horizontally.

[0038] The illustrated slatted wall (1) comprises several bearing sections (5) which are arranged parallel to each other. The bearing sections (5) of the various walls (2, 3) adjoin each other at the same angle (α) as the angle (α) at which the walls (2, 3) adjoin each other. To this end, these bearing sections (5) could, for example, be fixed to walls which adjoin each other at this same angle (α), directly or, for example, in a floating manner or using an intermediate structure in order to be able to provide insulation between the wall and the wall cladding. These could, for example, also be fixed to posts.

[0039] In the figures, the bearing sections (5) extend substantially horizontally. The bearing sections of one of the walls could also extend substantially vertically and could, for example, themselves serve as posts. The bearing sections could also be arranged at an angle.

[0040] The bearing sections (5) illustrated in the figures are configured to be substantially straight along their length direction. These could also be configured to be curved, for example.

[0041] The illustrated bearing sections (5) may be made, for example, from aluminium, for example by extrusion.

[0042] Structure attachment elements (17) are in each case attached to the bearing sections (5) and slats (6)

are attached to the former. To this end, fitting ribs (20) of the slats (6) are click-fitted in fitting slots (19) of the structure attachment elements (17) which are partly delimited by elastically displaceable fitting ribs (18).

[0043] The illustrated structure attachment elements (17) may, for example, be made from plastic, for example by injection-moulding.

[0044] The illustrated slats (6) may be made, for example, from aluminium, for example by extrusion.

[0045] The slats (6) may also have any kind of other shape. These may also be made from other materials. Instead of slats (6), other wall cladding elements (6) could also be provided.

[0046] According to the invention, the slatted wall (1) additionally also comprises a protective corner profile (7) which is attached to bearing sections (5) of one of the walls (2) by means of corner attachment elements (8). To this end, these bearing sections (5) are of a hollow design, with the cavity (13) being accessible via an end of these bearing sections (5). Each corner attachment element (8) comprises a corresponding attachment body (9) which is fittable in this cavity (13).

[0047] After the attachment body (9) of the corner attachment element (8) has been fitted in the cavity (13) of the corresponding bearing section (5), the corner attachment element (8) is slideable with respect to this bearing section (5) along the length direction of the bearing section (5). In the illustrated embodiment, the shape of the attachment body (9) corresponds to the shape of the cavity (13) to this end.

[0048] Each corner attachment element (8) is furthermore provided with fitting slots (11) which are protected on either side by an elastically displaceable fitting rib (12).

[0049] The protective corner profile (7) is provided with corresponding fitting ribs (10) comprising a widened head (14) which can be click-fitted into the fitting slots (11). In this case, click-fitting the protective corner profile (7) takes place along a direction (A) at right angles to the rib (4) and at an angle (β , β') with respect to each of the two walls (2, 3).

[0050] The elastically displaceable fitting ribs (12) of the corner attachment element (8) are provided with an undercut (15) behind which, in the installed position, the widened head (14) of the corresponding fitting rib (10) of the protective corner profile (7) engages.

[0051] During fitting of the protective corner profile (7), the fitting ribs (10) thereof are guided from the corner attachment element (8) to the corresponding fitting slots (11) by guiding surfaces (23) of the fitting ribs (12). The widened head (14) of the fitting ribs (10) of the protective corner profile (7) then first pushes the elastically displaceable fitting ribs (12) away, after which these elastic fitting ribs (12) reassume their original position. In this case, each fitting rib (10) of the protective corner profile (7) is click-fitted between the corresponding elastically displaceable fitting ribs (12) of the corner attachment element (8). In this case, the undercuts (15) prevent the head (14) from coming out of the fitting slot (11). In this

case, the protective corner profile (7) is then still slideable with respect to the corner attachment element (8) along the length direction of the rib (4).

[0052] The protective corner profile (7) is furthermore provided with protective legs (16) by means of which this protective corner profile (7), in the fitted position, partly overlaps the adjacent slats (6). The slats (6) are also provided with a protective leg (21) which is provided in order to be able, in the fitted position, to partly overlap a projecting flange (22) of an adjacent slat (6). Depending on the positioning of such a slat (6) with respect to the protective corner profile (7), this protective corner profile (7), in the fitted position, will then either overlap this protective leg (21) of an adjacent slat (6), as can be seen in Fig. 6, or such a projecting flange (22).

Claims

1. Wall cladding (1) comprising two walls (2, 3) which adjoin each other at an angle (α) in a common rib (4), each wall comprising:
 - bearing sections (5), one end of which ends at the location of the rib (4);
 - wall cladding elements (6) which are attached to the bearing sections (5) thereby cladding these bearing sections (5); and
 - a protective corner profile (7) in order to form the rib (4); **characterized in that** the wall cladding furthermore comprises:
 - corner attachment elements (8) which are attached to bearing sections (5), displaceable with respect to these bearing sections (5) along the length direction of these bearing sections (5) as far as outside the front side of these bearing sections (5) on said end and wherein each corner attachment element (8) and the protective corner profile (7) are provided with corresponding attachment elements (10, 11) which are mutually coupleable in order to attach the corner attachment element (8) and the protective corner profile (7) to each other; whereby each corner attachment element (8) is attached to a bearing section (5) of only one of the walls.
2. Wall cladding (1) according to Claim 1, **characterized in that** the corner attachment element (8) and the protective corner profile (7) are mutually displaceable along the length direction of the rib (4) in the mutually coupled position.
3. Wall cladding (1) according to one of the preceding claims, **characterized in that** the bearing section (5) comprises a cavity (13) having an access opening at said end, in which the attachment body (9) of the corner attachment element (8) is at least partly fitted in order to attach the corner attachment element (8)

to the bearing section (5).

4. Wall cladding (1) according to one of the preceding claims, **characterized in that** the attachment elements (10, 11) are mutually coupled by means of a form-fitting.
5. Wall cladding (1) according to Claim 4, **characterized in that** the corner attachment element (8) is provided with a fitting slot (11) or fitting rib as fitting element (11), and **in that** the protective corner profile (7) is provided with a corresponding fitting rib (10) or fitting slot as fitting element (10), wherein the fitting rib (10) is fitted in the corresponding fitting slot (11) in a form-fitting manner.
6. Wall cladding (1) according to one of the preceding claims, **characterized in that** the attachment elements (10, 11) are mutually coupled by means of a click-fit connection.
7. Wall cladding (1) according to Claim 6, **characterized in that** the protective corner profile (7) comprises a fitting rib (10) with a widened head (14) as fitting element (10), and **in that** the corner attachment element (8) comprises a corresponding elastically displaceable fitting rib (12) which partly delimits a fitting slot (11) as fitting element (11) in order to arrange the widened head (14) therein and which is provided with an undercut (15), so that, when the fitting rib (10) of the protective corner profile (7) is fitted in the fitting slot (11) of the corner attachment element (8), this elastically displaceable fitting rib (12) is forced away by means of the widened head (14) and returns, so that the head (14) of the protective corner profile (7) engages behind the undercut (15) in the coupled position of the protective corner profile (7) and the corner attachment element (8).
8. Wall cladding (1) according to Claim 7, **characterized in that** the corner attachment element (8) comprises a guide element (23) which is arranged adjacent to the elastically displaceable fitting rib (12) or forms part thereof in order to guide the widened head (14) of the fitting rib (10) from the protective corner profile (7) towards the fitting slot (11) during coupling of the protective corner profile (7) and the corner attachment element (8).
9. Wall cladding (1) according to Claim 8, **characterized in that** the guide element is configured as a guide arc which is arranged between two adjacent elastically displaceable fitting ribs (12) which partly delimit adjacent fitting slots (11).
10. Wall cladding (1) according to one of the preceding claims, **characterized in that** the attachment elements (10, 11) are mutually coupled along a direction

(A) at an angle (β , β') with respect to each of the two walls (2, 3).

11. Wall cladding (1) according to one of the preceding claims, **characterized in that** the wall cladding elements (6) are configured as slats (6). 5
12. Wall cladding (1) according to one of the preceding claims, **characterized in that** the protective corner profile (7) is provided with a protective leg (16) in order, in the fitted position, to partly overlap said wall cladding elements (6). 10
13. Wall cladding (1) according to one of the preceding claims, **characterized in that** the corner attachment element (8) is made from plastic. 15

Patentansprüche

1. Wandverkleidung (1), umfassend zwei Wände (2, 3), die unter einem Winkel (α) in einer gemeinsamen Rippe (4) aneinander anschließen, wobei jede Wand folgende Elemente umfasst:

Tragabschnitte (5), von denen ein Ende an der Position der Rippe (4) endet;
Wandverkleidungselemente (6), die an den Tragabschnitten (5) befestigt sind und dadurch diese Tragabschnitte (5) verkleiden; und
ein Eckschutzprofil (7) zum Bilden der Rippe (4);
dadurch gekennzeichnet, dass die Wandverkleidung ferner umfasst:

Eckbefestigungselemente (8), die an Tragabschnitten (5) befestigt sind, die in Bezug auf diese Tragabschnitte (5) entlang der Längsrichtung dieser Tragabschnitte (5) bis außerhalb der Vorderseite dieser Tragabschnitte (5) am besagten Ende verschiebbar sind, und wobei jedes Eckbefestigungselement (8) und das Eckschutzprofil (7) mit entsprechenden Befestigungselementen (10, 11) bereitgestellt sind, die miteinander koppelbar sind, um das Eckbefestigungselement (8) und das Eckschutzprofil (7) aneinander zu befestigen;
wobei jedes Eckbefestigungselement (8) an einem Tragabschnitt (5) von nur einer der Wände befestigt ist. 20
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2. Wandverkleidung (1) nach Anspruch 1, **dadurch gekennzeichnet, dass** das Eckbefestigungselement (8) und das Eckschutzprofil (7) in der miteinander gekoppelten Position entlang der Längsrichtung der Rippe (4) miteinander verschiebbar sind. 55
3. Wandverkleidung (1) nach einem der vorhergehen-

den Ansprüche, **dadurch gekennzeichnet, dass** der Tragabschnitt (5) einen Hohlraum (13) mit einer Zugangsöffnung am besagten Ende umfasst, in den der Befestigungskörper (9) des Eckbefestigungselements (8) zumindest teilweise eingepasst ist um das Eckbefestigungselement (8) am Tragabschnitt (5) zu befestigen.

4. Wandverkleidung (1) nach einem der vorhergehenden Ansprüche, **dadurch gekennzeichnet, dass** die Befestigungselemente (10, 11) formschlüssig miteinander gekoppelt sind.
5. Wandverkleidung (1) nach Anspruch 4, **dadurch gekennzeichnet, dass** das Eckbefestigungselement (8) mit einem Passschlitz (11) oder einer Passrippe als Passelement (11) bereitgestellt ist, und dass das Eckschutzprofil (7) mit einer entsprechenden Passrippe (10) oder einem Passschlitz als Passelement (10) bereitgestellt ist, wobei die Passrippe (10) formschlüssig in den entsprechenden Passschlitz (11) eingepasst wird. 20
6. Wandverkleidung (1) nach einem der vorhergehenden Ansprüche, **dadurch gekennzeichnet, dass** die Befestigungselemente (10, 11) mittels einer Rastverbindung miteinander gekoppelt sind. 25
7. Wandverkleidung (1) nach Anspruch 6, **dadurch gekennzeichnet, dass** das Eckschutzprofil (7) eine Passrippe (10) mit einem verbreiterten Kopf (14) als Passelement (10) umfasst, und dass das Eckbefestigungselement (8) eine entsprechende elastisch verschiebbare Passrippe (12) umfasst, die einen Passschlitz (11) als Passelement (11) teilweise begrenzt, um darin den verbreiterten Kopf (14) unterzubringen, und die mit einer Hinterschneidung (15) bereitgestellt ist, so dass beim Einsetzen der Passrippe (10) des Eckschutzprofils (7) in den Passschlitz (11) des Eckverbindungselements (8) diese elastisch verschiebbare Passrippe (12) mittels des verbreiterten Kopfes (14) weggedrückt wird und zurückkehrt, so dass der Kopf (14) des Eckschutzprofils (7) in der gekoppelten Position des Eckschutzprofils (7) und des Eckverbindungselements (8) die Hinterschneidung (15) hintergreift. 30
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8. Wandverkleidung (1) nach Anspruch 7, **dadurch gekennzeichnet, dass** das Eckbefestigungselement (8) ein Führungselement (23) umfasst, das benachbart zur elastisch verschiebbaren Passrippe (12) angeordnet ist oder einen Teil davon bildet, zu dem Zweck, den verbreiterten Kopf (14) der Passrippe (10) beim Koppeln des Eckschutzprofils (7) und des Eckbefestigungselements (8) vom Eckschutzprofil (7) zum Passschlitz (11) zu führen. 55
9. Wandverkleidung (1) nach Anspruch 8, **dadurch ge-**

kennzeichnet, dass das Führungselement als ein Führungsbogen ausgelegt ist, der zwischen zwei benachbarten, elastisch verschiebbaren Passrippen (12) angeordnet ist, die benachbarte Passschlitze (11) teilweise begrenzen.

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10. Wandverkleidung (1) nach einem der vorhergehenden Ansprüche, **dadurch gekennzeichnet, dass** die Befestigungselemente (10, 11) entlang einer Richtung (A) unter einem Winkel (β , β') in Bezug auf jede der beiden Wände (2, 3) miteinander gekoppelt sind.

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11. Wandverkleidung (1) nach einem der vorhergehenden Ansprüche, **dadurch gekennzeichnet, dass** die Wandverkleidungselemente (6) als Leisten (6) ausgelegt sind.

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12. Wandverkleidung (1) nach einem der vorhergehenden Ansprüche, **dadurch gekennzeichnet, dass** das Eckschutzprofil (7) mit einem Schutzschenkel (16) bereitgestellt ist, zu dem Zweck, in der montierten Position die besagten Wandverkleidungselemente (6) teilweise zu überlappen.

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13. Wandverkleidung (1) nach einem der vorhergehenden Ansprüche, **dadurch gekennzeichnet, dass** das Eckbefestigungselement (8) aus Kunststoff besteht.

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Revendications

1. Revêtement mural (1) comprenant deux parois (2, 3) qui se rejoignent à un angle (α) dans une nervure commune (4), chaque paroi comprenant :

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des sections de support (5), dont une extrémité se termine à la position de la nervure (4) ;
des éléments de revêtement mural (6) qui sont fixés aux sections de support (5), revêtant ainsi ces sections de support (5) ; et
un profil de protection d'angle (7) afin de former la nervure (4) ; **caractérisé en ce que** le revêtement mural comprend en outre :

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des éléments de fixation d'angle (8) qui sont fixés aux sections de support (5), pouvant être déplacés par rapport à ces sections de support (5) dans le sens de la longueur de ces sections de support (5), jusqu'à l'extérieur du côté avant de ces sections de support (5) sur une extrémité et dans lequel chaque élément de fixation d'angle (8) et le profil de protection d'angle (7) sont munis d'éléments de fixation correspondants (10, 11) qui peuvent être mutuellement couplés afin de fixer l'élément de fixation d'angle (8)

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et le profil de protection d'angle (7) l'un à l'autre ;

moyennant que chaque élément de fixation d'angle (8) est fixé à une section de support (5) d'une seule des parois.

2. Revêtement mural (1) selon la revendication 1, **caractérisé en ce que** l'élément de fixation d'angle (8) et le profil de protection d'angle (7) peuvent être mutuellement déplacés dans le sens de la longueur de la nervure (4) dans la position de couplage mutuel.

3. Revêtement mural (1) selon l'une des revendications précédentes, **caractérisé en ce que** la section de support (5) comprend une cavité (13) ayant une ouverture d'accès à ladite extrémité, dans laquelle le corps de fixation (9) de l'élément de fixation d'angle (8) est au moins en partie ajusté afin de fixer l'élément de fixation d'angle (8) à la section de support (5).

4. Revêtement mural (1) selon l'une des revendications précédentes, **caractérisé en ce que** les éléments de fixation (10, 11) sont couplés mutuellement par emboîtement.

5. Revêtement mural (1) selon la revendication 4, **caractérisé en ce que** l'élément de fixation d'angle (8) est muni d'une fente de fixation (11) ou d'une nervure de fixation en tant qu'élément de fixation (11), et **en ce que** le profil de protection d'angle (7) est muni d'une nervure de fixation (10) ou d'une fente de fixation correspondante en tant qu'élément de fixation (10), dans lequel la nervure de fixation (10) est fixée dans la fente de fixation correspondante (11) par emboîtement.

6. Revêtement mural (1) selon l'une des revendications précédentes, **caractérisé en ce que** les éléments de fixation (10, 11) sont couplés mutuellement au moyen d'une liaison par encliquetage.

7. Revêtement mural (1) selon la revendication 6, **caractérisé en ce que** le profil de protection d'angle (7) comprend une nervure de fixation (10) ayant une tête élargie (14) en tant qu'élément de fixation (10), et **en ce que** l'élément de fixation d'angle (8) comprend une nervure de fixation correspondante à déplacement élastique (12) qui délimite en partie une fente de fixation (11) en tant qu'élément de fixation (11) afin d'agencer la tête élargie (14) à l'intérieur et qui est munie d'une encoche (15), de sorte que, lorsque la nervure de fixation (10) du profil de protection d'angle (7) est ajusté dans la fente de fixation (11) de l'élément de fixation d'angle (8), cette nervure de fixation à déplacement élastique (12) est éloignée de force au moyen de la tête élargie (14) et revient, de sorte que la tête (14) du profil de protection d'an-

gle (7) vient en prise derrière l'encoche (15) dans la position couplée du profil de protection d'angle(7) et de l'élément de fixation d'angle (8).

8. Revêtement mural (1) selon la revendication 7, **caractérisé en ce que** l'élément de fixation d'angle (8) comprend un élément guide (23) qui est disposé adjacent à la nervure de fixation à déplacement élastique (12) ou fait partie de celle-ci afin de guider la tête élargie (14) de la nervure de fixation (10) depuis le profil de protection d'angle (7) en direction de la fente de fixation (11) pendant le couplage du profil de protection d'angle (7) et de l'élément de fixation d'angle (8).

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9. Revêtement mural (1) selon la revendication 8, **caractérisé en ce que** l'élément guide est conçu comme un arc de guidage qui est disposé entre deux nervures de fixation à déplacement élastique (12) qui délimitent en partie des fentes adjacentes de délimitation (11).

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10. Revêtement mural (1) selon l'une des revendications précédentes, **caractérisé en ce que** les éléments de fixation (10, 11) sont mutuellement couplés le long d'une direction (A) à un angle (β , β') par rapport à chacune des deux parois (2, 3).

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11. Revêtement mural (1) selon l'une des revendications précédentes, **caractérisé en ce que** les éléments de revêtement mural (6) sont conçus sous forme de montants (6) .

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12. Revêtement mural (1) selon l'une des revendications précédentes, **caractérisé en ce que** le profil de protection d'angle (7) est muni d'une jambe de protection (16) afin de chevaucher en partie, dans la position fixée, lesdits éléments de revêtement mural (6).

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13. Revêtement mural (1) selon l'une des revendications précédentes, **caractérisé en ce que** l'élément de fixation d'angle (8) est constitué de plastique.

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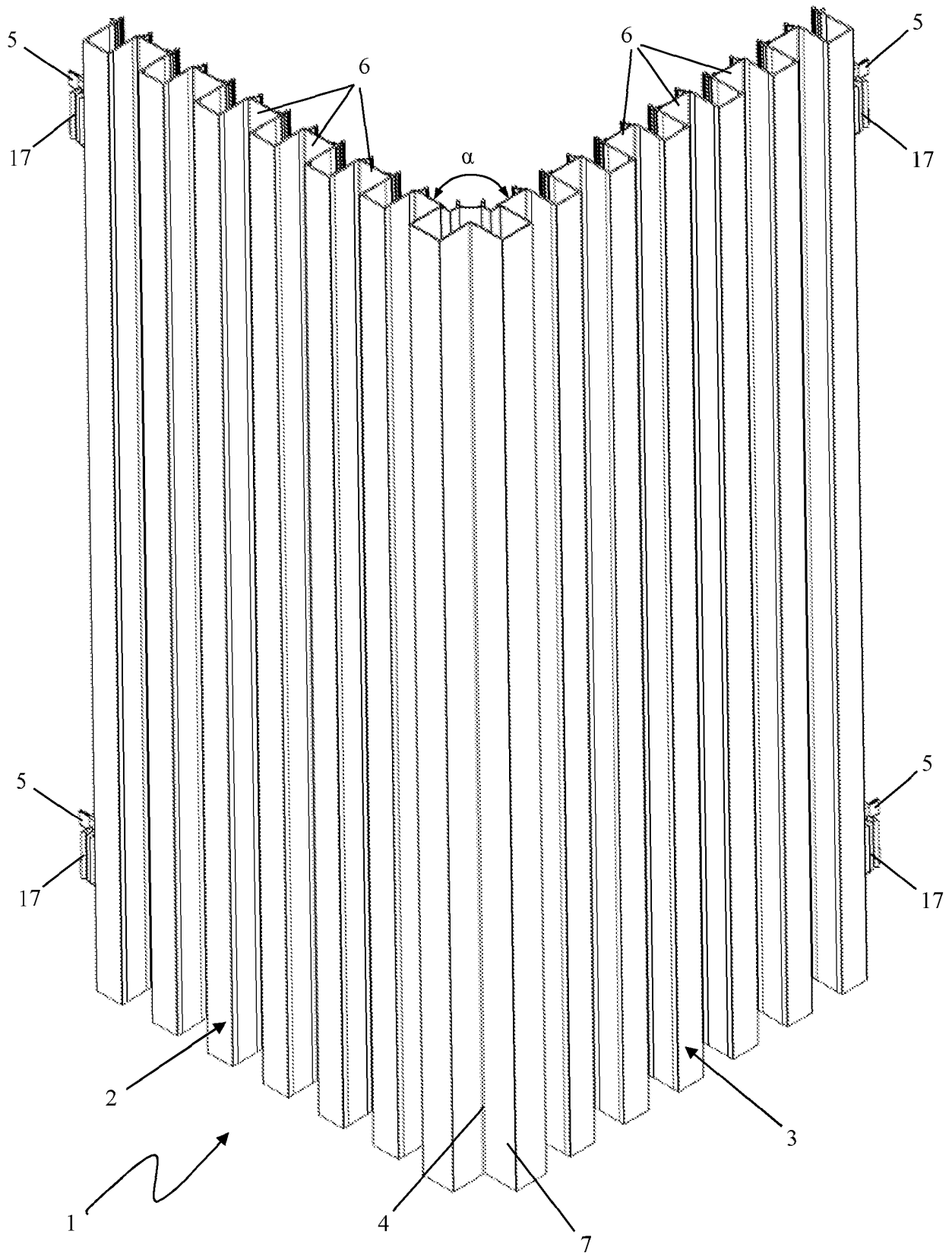


Fig. 1

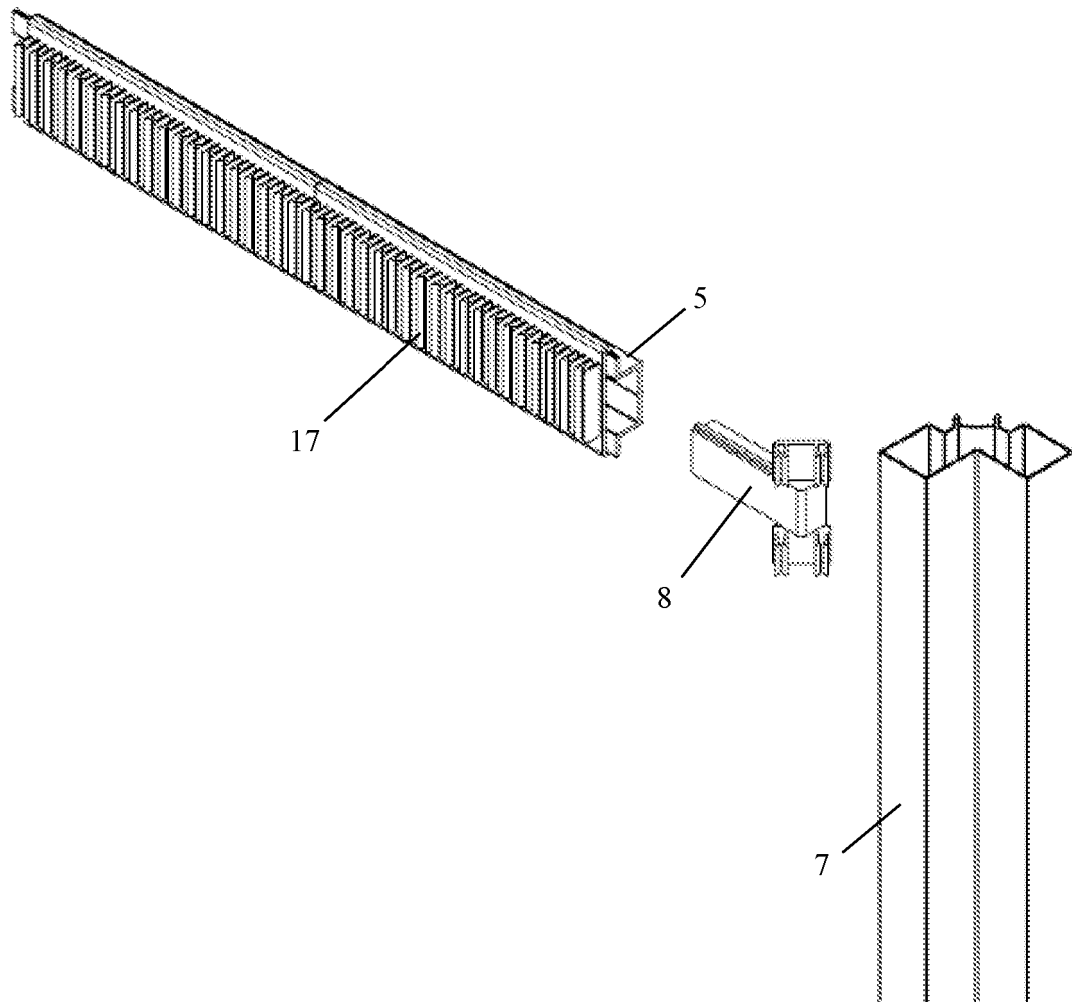


Fig. 2

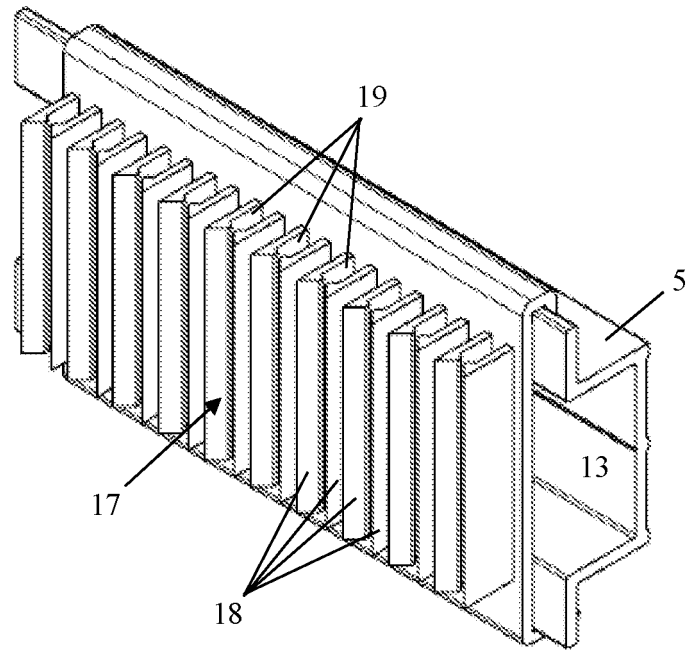


Fig. 3

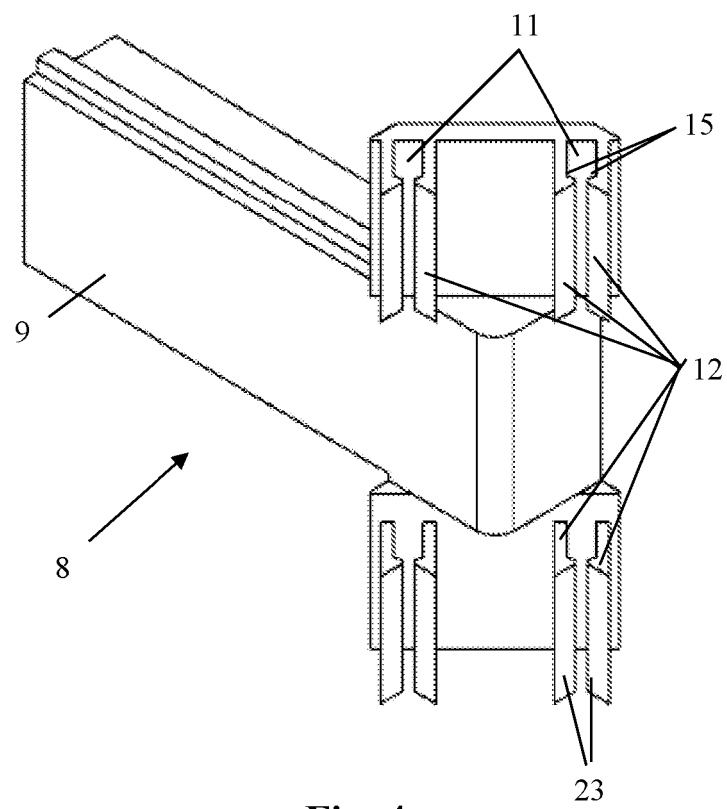


Fig. 4

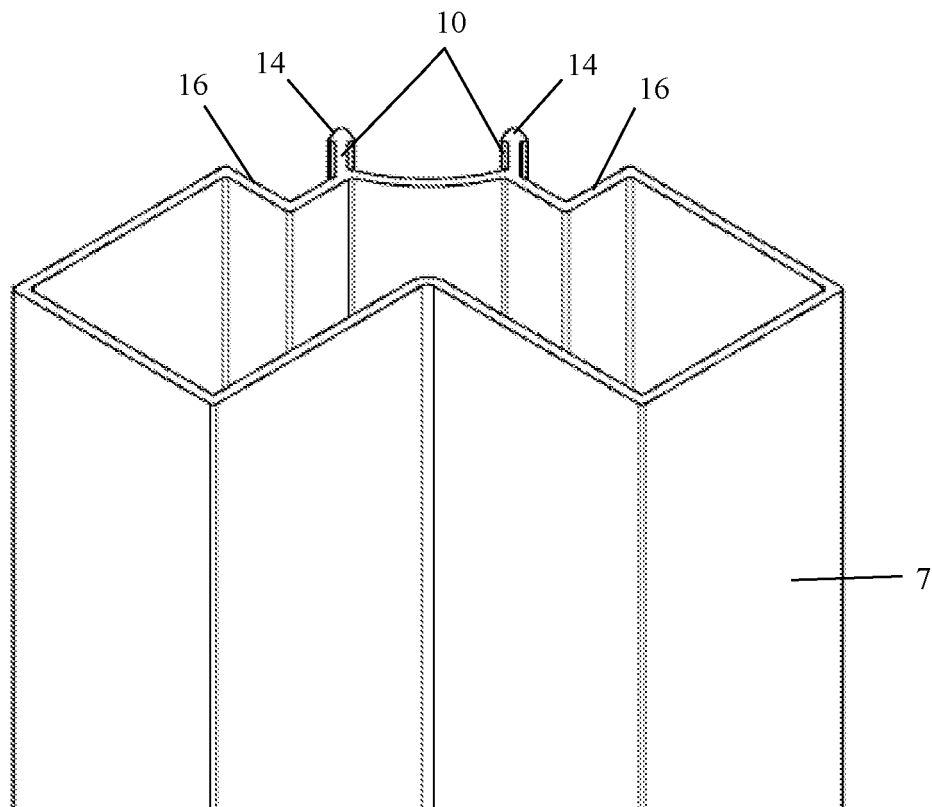


Fig. 5

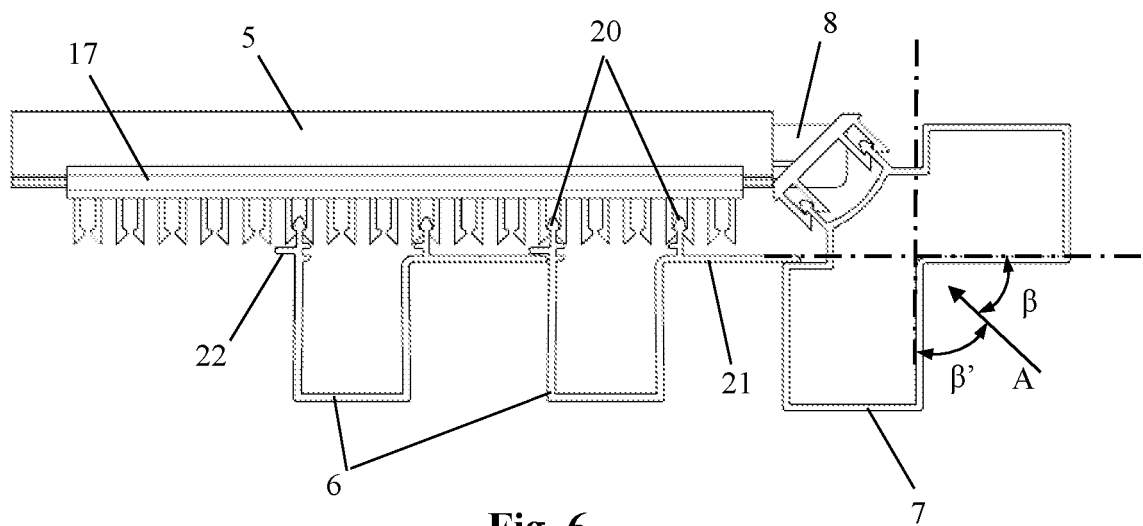


Fig. 6

REFERENCES CITED IN THE DESCRIPTION

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Patent documents cited in the description

- FR 2121393 A2 [0005]
- DE 19620134 A1 [0005]
- DE 4418291 A1 [0005]
- WO 2008064896 A2 [0005]
- GB 2012342 A [0007]