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(54) A MOUNTING MEMBER FOR THE MOUNTING OF THE DECORATIVE PANEL TO THE BUILT-IN HOUSEHOLD APPLIANCE

MONTAGEELEMENT ZUR MONTAGE EINER DEKORPLATTE AN EINEM EINGEBAUTEN HAUSHALTSGERÄT

ÉLÉMENT DE MONTAGE POUR LE MONTAGE D'UN PANNEAU DÉCORATIF SUR UN APPAREIL DOMESTIQUE INTÉGRÉ

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Description

[0001] The present invention relates to a mounting member which is used for the mounting of the decorative panels onto the built-in household appliances.

[0002] It is required that the built-in household appliances are placed into a cabinet and decorative panels which suit the properties of the cabinet have to be mounted onto the same. During the mounting process, the positioning of the decorative panels is critical both aesthetically and functionally. Thus, the mounting process is performed by authorized service personnel by taking precise measurements. As the household appliance is heavy and hard to move inside the cabinet and the material and the size of the cabinet vary, the mounting process is a substantially time consuming and laborious process.

[0003] In the state of the art French Patent Application No. FR2802787, it is disclosed that the decorative panel is mounted onto the door of the built-in refrigerator by making adjustments by means of a mechanism.

[0004] Another state of the art embodiment is disclosed in the International Patent Application No. WO2014177226. This document discloses an adjustment mechanism which enables the decorative panel to be mounted easily onto the built-in dishwasher.

[0005] In another the state of the art embodiment, Turkish Patent Application No. TR201111997, a mounting apparatus is disclosed, which is used for the mounting of the built-in household appliance, providing both alignment and height adjustment.

[0006] Another state of the art embodiment is disclosed in the Patent Application No. EP0718459. This document discloses a mechanism which enables the built-in household appliance to be placed into the cabinet properly.

[0007] In another the state of the art embodiment, Turkish Patent Application No. TR201206553, two adjustment mechanisms are disclosed, which enable the decorative panel mounted onto the door of the built-in household appliance to be moved independently of the door in two perpendicular directions by means of two perpendicular alignment screws.

[0008] In the state of the art German Patent Application No. DE 102017130849, a mounting member is disclosed, which is placed into the cabinet and which enables the decorative panel to be mounted onto the built-in household appliance.

[0009] In the state of the art German Patent Application No. DE19852330, a household appliance having door and means for attaching a door leaf to the door is disclosed.

[0010] The aim of the present invention is the realization of a mounting member which is used for the precise and easy mounting of the decorative panels onto the built-in household appliances.

[0011] The mounting member realized in order to attain the aim of the present invention, explicated in the first claim and the respective claims thereof, is a member used for the mounting of the decorative panel onto a built-

in household appliance, and comprises a base which is seated on the base of the cabinet; an additional base which extends towards the base and the body of the built-in household appliance; a first carrier having an extension which extends between the body of the household appliance and the door, perpendicular to the base and the additional base and an additional extension which extends downwards outside the cabinet from the other end of the base, perpendicular to the base and which has holders extending outwards; and a second carrier which is attached to the lower edge of the decorative panel, which moves on the additional extension upwards and downwards in the vertical direction and which has additional holders matching the form of the holders on the additional extension at the side thereof facing the additional extension so as to engage with the holders.

[0012] In the embodiment of the present invention, after the built-in household appliance is placed into the cabinet, the first carrier is placed to the lower front section of the cabinet and the built-in household appliance. In this embodiment, the base of the first carrier extends towards the base of the cabinet and the additional base extends under the body of the built-in household appliance which is at a distance from the base of the cabinet while the extension is positioned between the body and the door of the built-in household appliance and the additional extension extends downwards from the front of the cabinet. By means of the extension and the additional extension which extend perpendicular to the base and the additional base, the first carrier is prevented from sliding and moving forwards and backwards on the base of the cabinet.

[0013] The second carrier which is attached under the decorative panel is attached to the first carrier together with the decorative panel such that the additional holders engage with the holders on the first carrier. The horizontal and vertical positions of the decorative panel on the door are determined precisely by adjusting the relative positions of the holders and the additional holders with respect to each other. The mounting member is removed from the cabinet and the decorative panel after the decorative panel is fixed to the door.

[0014] In an embodiment of the present invention, heights of the base and the additional panel are different from each other. To prevent the breaking of the additional base by flexing due to the distance between the base and the additional base, a support member extending from the base towards the additional base is provided at the corner between the additional base and the base.

[0015] In another embodiment of the present invention, the mounting member comprises a plurality of holders which extend in a plurality of rows perpendicular to the horizontal plane of the additional extension. In this embodiment, mounting member further comprises a plurality of additional holders with the same form as the holder, arranged on the surface of the second carrier which faces the first carrier. By adjusting the height at which the holder and the additional holder engage with each other, the

position of the decorative panel on the door is determined. Furthermore, in the embodiment of the present invention, the holders extend outwards from the surface of the additional extension so as to be inclined upwards while the additional extensions extend so as to be inclined downwards. Thereby, the holder and the additional holders are prevented from being broken due to weight and sliding in the vertical direction.

[0016] In another embodiment of the present invention, the mounting member comprises one or more than one fixing member which is provided on the door, enabling the decorative panel to be attached from the upper section thereof after the decorative panel is attached to the door from the lower section by means of the first and second carriers attached to each other. The fixing member enables the decorative panel to be attached to the door temporarily after the decorative panel is attached to the door from the lower section. After the completion of this process, the fixing member is removed from the door and the decorative panel is fixed onto the door permanently by means of fixing means. The temporary attachment of the decorative panel onto the door is performed by means of adhesives.

[0017] In another embodiment of the present invention, the second carrier is h-shaped. In this embodiment, the additional holders are arranged on the back of the second carrier.

[0018] In another embodiment of the present invention, the mounting member is used for fixing decorative panels onto the lower and upper doors of the built-in cooling devices which are placed into cabinets and which have lower and upper doors. In this embodiment, the required distance between the lower and upper doors is adjusted by means of the mounting member. By means of the mounting member, the decorative panels which are fixed onto the lower and upper doors are enabled to be grouped on the same plane so as to be aligned with each other.

[0019] By means of the present invention, the decorative panel is enabled to be attached to the door precisely and easily without the need for taking measurements on the built-in household appliance and the decorative panel. Furthermore, as the position of the decorative panel on the door is determined without taking measurements, the need for the service personnel to use measurement devices is eliminated, thus decreasing the time, cost and labor needed to place the built-in household appliance into the cabinet. The mounting member further decreases the service failure rate by preventing the built-in household appliance from being grouped wrongly in the cabinet.

[0020] The mounting member realized in order to attain the aim of the present invention is illustrated in the attached figures, where:

Figure 1 - is the perspective view of a built-in household appliance and the cabinet.

Figure 2 - is the sideways cross-sectional view of the

mounting member.

Figure 3 - is the perspective view of the first carrier.

Figure 4 - is the perspective view of the second carrier.

5 Figure 5 - is the cross-sectional view of the lower decorative panel during the mounting process.

Figure 6 - is the view of detail A in Figure 5.

Figure 7 - is the view of detail B in Figure 5.

10 Figure 8 - is the cross-sectional view of the upper decorative panel during the mounting process.

Figure 9 - is the view of the detail C in Figure 8.

[0021] The elements illustrated in the figures are numbered as follows:

- 15
1. Cabinet
 2. Built-in household appliance
 3. Body
 4. Door
 - 20 5. Lower door
 6. Upper door
 7. Decorative panel
 8. Mounting member
 9. First carrier
 - 25 10. Second carrier
 11. Base
 12. Additional base
 13. Extension
 14. Additional extension
 - 30 15. Holder
 16. Additional holder
 17. Support member
 18. Fixing member

35 **[0022]** The mounting member (8) is a member used for mounting the decorative panel (7) onto a built-in household appliance (2) which is placed into the cabinet (1), and comprises a first carrier (9) having a base (11) which is seated onto the base of the cabinet (1), an additional base (12) which extends towards the base (11) and under of the body (3) of the built-in household appliance (2), an extension (13) which extends between the body (3) and the door (4), perpendicular to the base (11) and the additional base (12), and an additional extension (14) which extends downwards from the other end of the base (11) extending out of the cabinet (1), perpendicular to the base (11) and which has one or more than one holder (15) thereon; and a second carrier (10) which is attached to the lower edge of the decorative panel (7), which moves on the additional extension (14) upwards and downwards in the vertical direction and which has additional holders (16) on the side thereof facing the additional extension (14), matching the form of the holders (15) on the additional extension (14) so as to engage with the same (Figure 1 and Figure 2).

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[0023] In the embodiment of the present invention, after the built-in household appliance (2) is placed into the cabinet (1), the first carrier (9) is placed to the lower front

section of the cabinet (1) and the built-in household appliance (2). During this process, the base (11) of the first carrier (9) extends towards the base of the cabinet (1) while the additional base (12) extends towards the base of the body (3) which is at a distance from the bottom of the cabinet (1). In this case, the extension (13) is positioned between the body (3) and the door (4) of the built-in household appliance (2) while the additional extension (14) extends downwards from the front side of the cabinet (1). At the same time, the second carrier (10) which is attached under the decorative panel (7) is moved closer and attached to the first carrier (9) together with the decorative panel (7) such that the additional holders (16) engage with the holders (15) on the first carrier (9). The horizontal and vertical positions of the decorative panel (7) on the door (4) are determined precisely by adjusting the relative positions of the holders (15) and the additional holders (16) with respect to each other. After this step, the decorative panel (7) is fixed onto the door (4) and the mounting member (8) is removed from the cabinet (1) and the decorative panel (7). Moreover, by means of the extension (13) and the additional extension (14) which extend perpendicular to the base (11) and the additional base (12), the first carrier (9) is prevented from sliding and moving forwards and backwards on the base of the cabinet (1) (Figure 3 and Figure 4).

[0024] In an embodiment of the present invention, the mounting member (8) comprises the base (11) and the additional base (12) which are at different heights. In this embodiment, the mounting member (8) comprises a support member (17) at the corner between the additional base (12) and the base (11), extending from the base (11) towards additional base (12). The flexing and breaking of the additional base (12) due to the distance between the base (11) and the additional base (12) is prevented by means of the support member (17).

[0025] In another embodiment of the present invention, the mounting member (8) comprises a plurality of holders (15) which extend in a plurality of rows perpendicular to the horizontal plane of the additional extension (14). In this embodiment, the mounting member (8) further comprises a plurality of additional holders (16) with the same form as the holder (15), arranged on the surface of the second carrier (10) which faces the first carrier (9). By adjusting the height at which the holder (15) and the additional holder (16) engage with each other, the position of the decorative panel (7) on the door (4) is determined. Furthermore, in the embodiment of the present invention, the holders (15) extend outwards from the surface of the additional extension (14) so as to be inclined upwards while the additional holders (16) extend so as to be inclined downwards. Thereby, the holder (15) and the additional holders (16) are prevented from being broken due to weight and sliding in the vertical direction.

[0026] In another embodiment of the present invention, the mounting member (8) comprises one or more than one fixing member (18) which are provided on the door (4), enabling the decorative panel (7) to be attached from

the upper section thereof after the decorative panel (7) is attached to the door (4) from the lower section by means of the first and second carriers (9 and 10) attached to each other. The fixing member (18) enables the decorative panel (7) to be attached to the door (4) temporarily after the decorative panel (7) is attached to the door (4) from the lower section thereof. After the completion of this process, the fixing member (18) is removed from the door (4) and the decorative panel (7) is fixed onto the door (4) permanently by means of fixing means. The temporary attachment of the decorative panel (7) onto the door (4) is performed by means of adhesives (Figure 5, Figure 6 and Figure 7).

[0027] In another embodiment of the present invention, the second carrier (10) is h-shaped. In this embodiment, the additional holders (16) are arranged on the back of the second carrier (10).

[0028] In another embodiment of the present invention, the mounting member (8) is used for fixing decorative panels (7) onto the lower and upper doors (5 and 6) of the built-in cooling devices which are placed into cabinets (1) and which have lower and upper doors (5 and 6). In this embodiment, the required distance between the lower and upper doors (5 and 6) is adjusted by means of the mounting member (8). By means of the mounting member (8), the decorative panels (7) which are fixed onto the lower and upper doors (5 and 6) are enabled to be grouped on the same plane so as to be aligned with each other (Figure 8 and Figure 9).

[0029] By means of the present invention, the decorative panel (7) is enabled to be attached to the door (4) precisely and easily without the need for taking measurements on the built-in household appliance (2) and the decorative panel (7). Furthermore, as the position of the decorative panel (7) is determined without taking measurements, the need for the service personnel to use measurement devices is eliminated, thus decreasing the time, cost and labor needed to place the built-in household appliance (2) into the cabinet (1). The mounting member (8) further decreases the service failure rate by preventing the built-in household appliance (2) from being grouped wrongly in the cabinet (1).

45 Claims

1. A mounting member (8) for mounting a decorative panel (7) onto a built-in household appliance (2) having a body (3) and a door (4), the household appliance being placed into a cabinet (1), the mounting member (8) comprising a first carrier (9) having a base (11) which is seated onto the base of the cabinet (1), an additional base (12) which extends towards the base (11) and under the body (3) of the built-in household appliance (2), and an additional extension (14) which extends downwards from an other end of the base (11) extending out of the cabinet (1), perpendicular to the base (11) and which

- has holders (15) thereon; and a second carrier (10) which is attached to the lower edge of the decorative panel (7), which moves on the additional extension (14) upwards and downwards in the vertical direction and which has additional holders (16) on the side thereof facing the additional extension (14), matching the form of the holders (15) on the additional extension (14) so as to engage with the same, the mounting member (8) being **characterized by** further comprising an extension (13) which extends between the body (3) and the door (4), perpendicular to the base (11) and the additional base (12).
2. A mounting member (8) as in Claim 1, **characterized by** the base (11) and the additional base (12) which are at different heights.
 3. A mounting member (8) as in Claim 2, **characterized by** a support member (17) at the corner between the additional base (12) and the base (11), extending from the base (11) towards additional base (12).
 4. A mounting member (8) as in Claim 1, **characterized by** a plurality of holders (15) which extend in a plurality of rows perpendicular to the horizontal plane of the additional extension (14).
 5. A mounting member (8) as in Claim 4, **characterized by** a plurality of additional holders (16) with the same form as the holder (5), arranged on the surface of the second carrier (10) which faces the first carrier (9).
 6. A mounting member (8) as in Claim 4, **characterized by** the holders (15) which extend outwards from the surface of the additional extension (14) so as to be inclined upwards.
 7. A mounting member (8) as in Claim 5 and Claim 6, **characterized by** the additional holders (16) which extend so as to be inclined downwards.
 8. A mounting member (8) as in Claim 1, **characterized by** one or more than one fixing member (18) which are provided on the door (4), enabling the decorative panel (7) to be attached from the upper section thereof
 9. A mounting member (8) as in Claim 1, **characterized by** the second carrier (10) which is h-shaped.
 10. A mounting member (8) as in Claims 1 and 5 and 7 and 9, **characterized by** the additional holders (16) which are arranged on the back of the second carrier (10).
 11. A mounting member (8) as in any one of the above claims, suitable for fixing decorative panels (7) onto

lower and upper doors (5 and 6) of built-in cooling devices which are placed into cabinets (1) and which have lower and upper doors (5 and 6).

Patentansprüche

1. Ein Montageelement (8) zum Montieren einer Dekorplatte (7) an einem Haushaltseinbaugerät (2), umfasst einen Körper (3) und eine Tür (4), wobei das Haushaltsgerät in einen Schrank (1) gestellt wird, das Montageelement (8) umfasst einen ersten Träger (9) mit einer Basis (11), die auf der Basis des Gehäuses (1) sitzt, einen zusätzlichen Sockel (12), der sich zum Sockel (11) und unter den Körper (3) des Haushaltseinbaugeräts (2) erstreckt, und eine zusätzliche Verlängerung (14), die sich von einem anderen Ende der Basis (11) nach unten erstreckt, die sich aus dem Schrank (1) heraus erstreckt, senkrecht zu der Basis (11) und die Halter (15) darauf aufweist; und einen zweiten Träger (10), der an der Unterkante der Dekorplatte (7) befestigt ist und sich auf dem zusätzlichen Fortsatz (14) in vertikaler Richtung auf und ab bewegt und seitlich zusätzliche Halterungen (16) aufweist, die der Zusatzverlängerung (14) zugewandt sind und der Form der Halterungen (15) an der Zusatzverlängerung (14) angepasst sind, um mit dieser in Eingriff zu kommen; das Montageelement (8) ist **dadurch gekennzeichnet, dass** es darüber hinaus eine Verlängerung (13) umfasst, die sich zwischen dem Körper (3) und der Tür (4) senkrecht zu der Basis (11) und der zusätzlichen Basis (12) erstreckt.
2. Ein Montageelement (8), wie in Anspruch 1 aufgeführt, **ist dadurch gekennzeichnet, dass** die Basis (11) und die zusätzliche Basis (12) auf unterschiedlichen Höhen sind.
3. Ein Montageelement (8), wie in Anspruch 2 aufgeführt, **ist dadurch gekennzeichnet, dass** das Stützelement (17) an der Ecke zwischen der zusätzlichen Basis (12) und der Basis (11), das sich von der Basis (11) in Richtung der zusätzlichen Basis (12) erstreckt.
4. Ein Montageelement (8), wie in Anspruch 1 aufgeführt, **ist dadurch gekennzeichnet, dass** mehrere Halter (15) sich in mehreren Reihen senkrecht zur horizontalen Ebene der zusätzlichen Verlängerung (14) erstrecken.
5. Ein Montageelement (8), wie in Anspruch 4 aufgeführt, **ist dadurch gekennzeichnet, dass** mehrere zusätzliche Halter (16) mit der gleichen Form wie der Halter (5) auf der dem ersten Träger (9) zugewandten Oberfläche des zweiten Trägers (10) angeordnet sind.

6. Ein Montageelement (8), wie in Anspruch 4 aufgeführt, **ist dadurch gekennzeichnet, dass** die Halterungen (15) sich von der Oberfläche des zusätzlichen Fortsatzes (14) nach außen geneigt nach oben erstrecken.
7. Ein Montageelement (8), wie in den Ansprüchen 5 und 6 aufgeführt, **ist dadurch gekennzeichnet, dass** die Zusatzhalter (16) schräg nach unten verlaufen.
8. Ein Montageelement (8), wie in Anspruch 1 aufgeführt, **ist dadurch gekennzeichnet, dass** ein oder mehrere Befestigungselement (18), das an der Tür (4) vorgesehen ist und es ermöglicht, die dekorative Platte (7) von deren oberen Abschnitt aus anzubringen.
9. Ein Montageelement (8), wie in Anspruch 1 aufgeführt, **ist dadurch gekennzeichnet, dass** der zweite Träger (10) h-förmig ist.
10. Ein Montageelement (8), wie in Anspruch 1, 5, 7 und 9 aufgeführt, **ist dadurch gekennzeichnet, dass** die zusätzlichen Halterungen (16) auf der Rückseite des zweiten Trägers (10) angeordnet sind.
11. Ein Montageelement (8), wie in einem der vorherigen Ansprüchen aufgeführt, eignet sich zur Befestigung von Dekorplatten (7) an unteren und oberen Türen (5 und 6) von Einbaukühlgeräten, die in Schränke (1) gestellt werden und die unteren und oberen Türen (5 und 6) aufweisen.

Revendications

1. Un élément de montage (8) pour le montage d'un panneau décoratif (7) sur un appareil électroménager intégré (2) ayant un corps (3) et une porte (4), l'appareil électroménager étant placé dans un meuble (1), l'élément de montage (8) comprenant un premier porteur (9) ayant une base (11) qui est monté sur le fond du meuble (1), une base supplémentaire (12) qui s'étend vers la base (11) et sous le corps (3) de l'appareil électroménager intégré (2), et une extension supplémentaire (14) qui s'étend vers le bas à partir d'une autre extrémité de la base (11) s'étendant hors du meuble (1), perpendiculaire à la base (11) et qui a des supports (15) dessus ; et un second porteur (10) qui est fixé au bord inférieur du panneau décoratif (7), qui se déplace sur l'extension supplémentaire (14) vers le haut et vers le bas dans la direction verticale et qui a des supports supplémentaires (16) sur son côté faisant face à l'extension supplémentaire (14), s'appariant avec la forme des supports (15) sur l'extension supplémentaire (14) de manière à s'engager avec celle-ci, l'élément de mon-

tage (8) étant **caractérisé en ce qu'il** comprend en outre une extension (13) qui s'étend entre le corps (3) et la porte (4), perpendiculaire à la base (11) et une base supplémentaire (12).

2. Un élément de montage (8) selon la Revendication 1, **caractérisé par** la base (11) et la base supplémentaire (12) qui sont à des hauteurs différentes.
3. Un élément de montage (8) selon la Revendication 2, **caractérisé par** un élément de support (17) à l'angle entre la base supplémentaire (12) et la base (11), s'étendant de la base (11) vers la base supplémentaire (12).
4. Un élément de montage (8) selon la Revendication 1, **caractérisé par** une pluralité de supports (15) qui s'étendent en une pluralité de rangées perpendiculaires au plan horizontal de l'extension supplémentaire (14).
5. Un élément de montage (8) selon la Revendication 4, **caractérisé par** une pluralité de supports supplémentaires (16) ayant la même forme que le support (5), disposés sur la surface du second porteur (10) qui fait face au premier porteur (9).
6. Un élément de montage (8) selon la Revendication 4, **caractérisé par** les supports (15) qui s'étendent vers l'extérieur depuis la surface de l'extension supplémentaire (14) de manière à être inclinés vers le haut.
7. Un élément de montage (8) selon la Revendication 5 et la Revendication 6, **caractérisé par** les supports supplémentaires (16) qui s'étendent de manière à être inclinés vers le bas.
8. Un élément de montage (8) selon la Revendication 1, **caractérisé par** un ou plusieurs éléments de fixation (18) disposés sur la porte (4), permettant de fixer le panneau décoratif (7) à partir de sa partie supérieure.
9. Un élément de montage (8) selon la Revendication 1, **caractérisé par** le second porteur (10) qui est en forme de H.
10. Un élément de montage (8) selon la Revendication 1 et 5 et 7 et 9, **caractérisé par** les supports supplémentaires (16) qui sont disposés à l'arrière du second porteur (10).
11. Un élément de montage (8) selon l'une quelconque des Revendications cidessus, adapté pour la fixation de panneaux décoratifs (7) sur les portes inférieures et supérieures (5 et 6) des dispositifs de refroidissement intégrés qui sont placés dans des meubles (1)

et qui ont des portes inférieures et supérieures (5 et 6).

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Figure 1

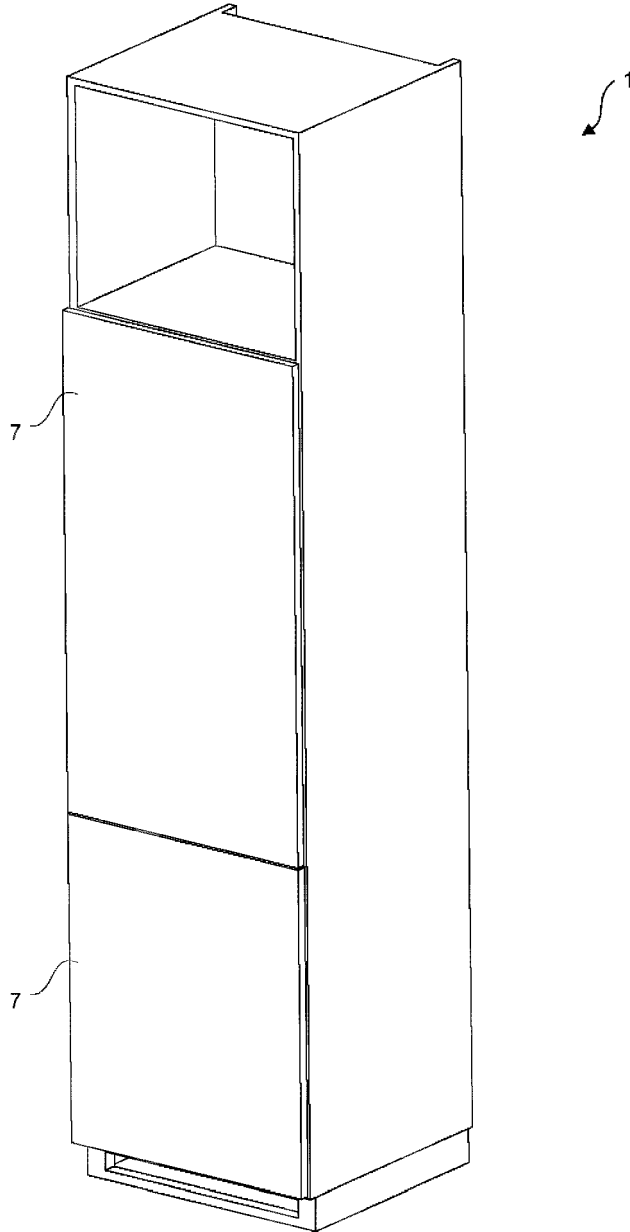


Figure 2

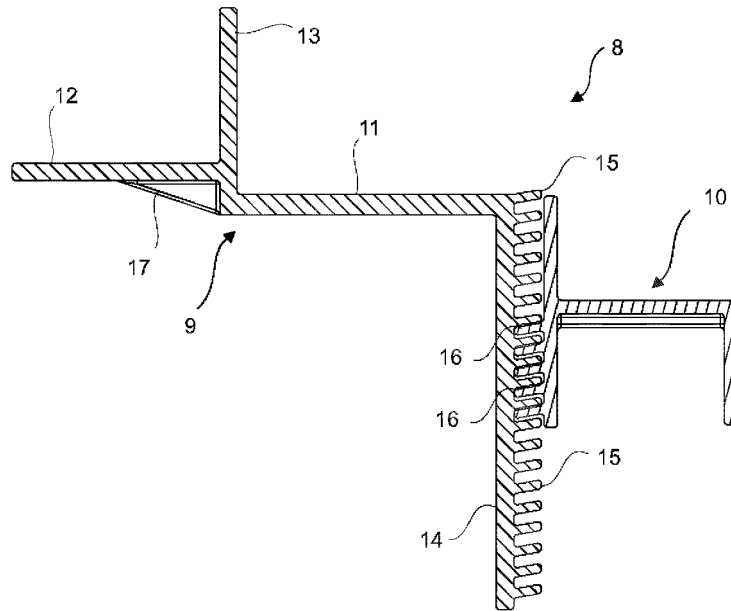


Figure 3

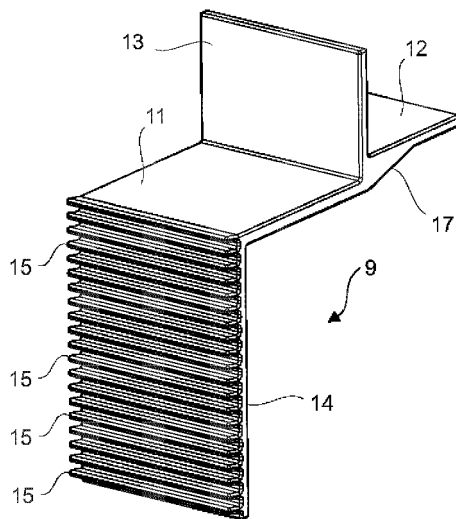


Figure 4

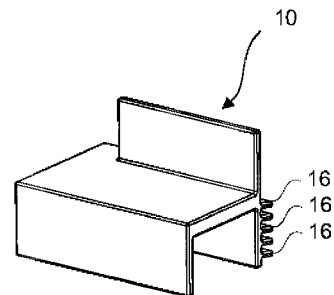


Figure 5

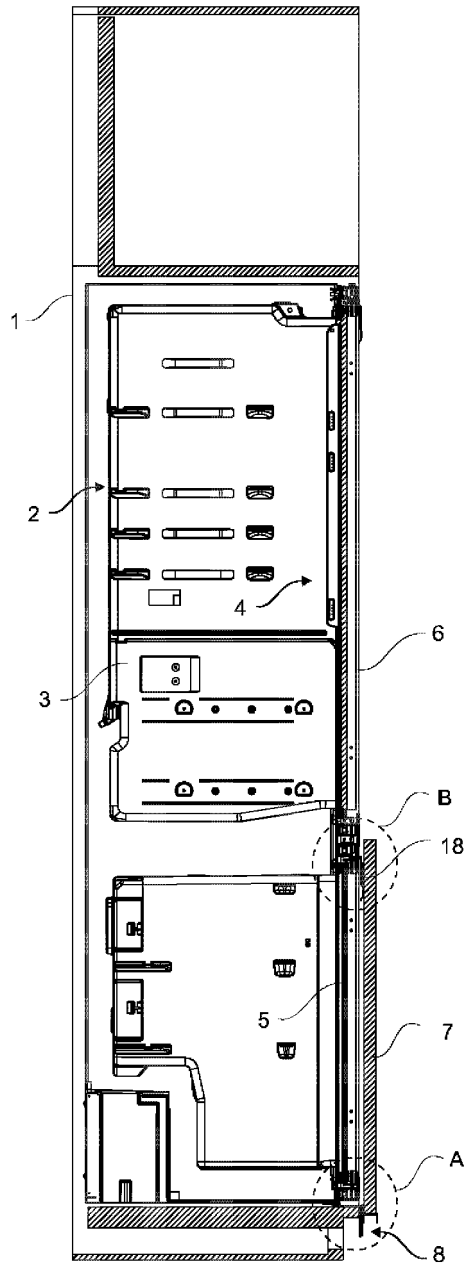


Figure 6

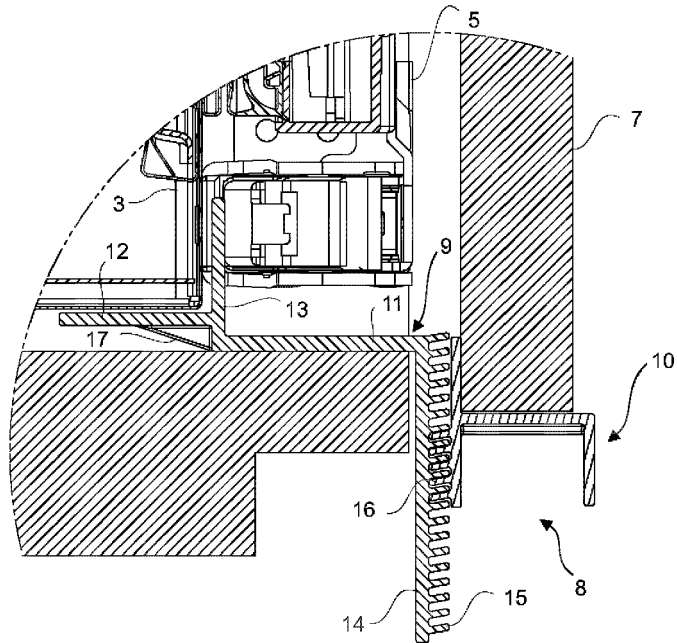


Figure 7

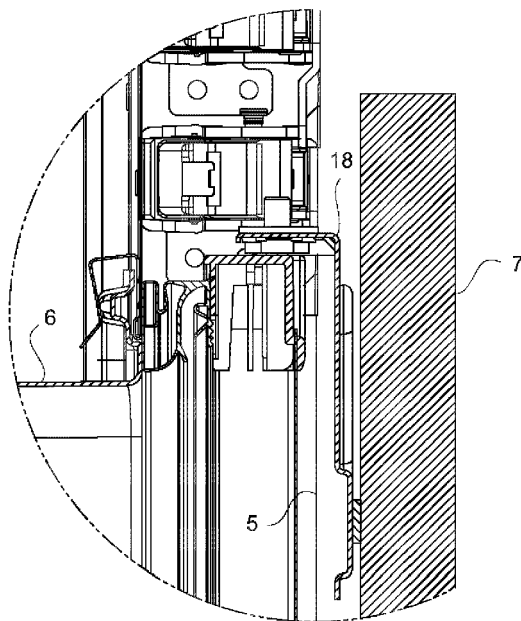


Figure 8

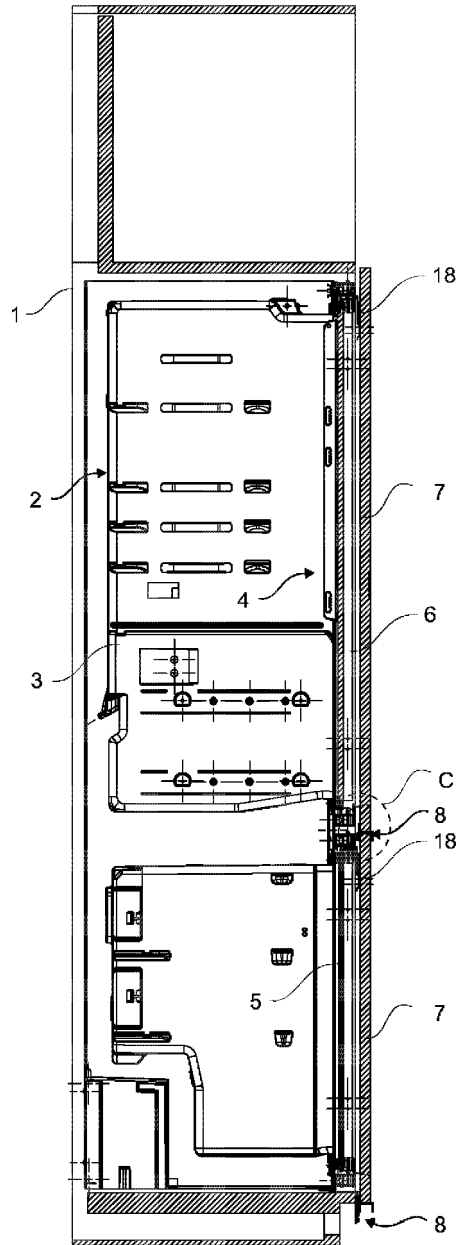
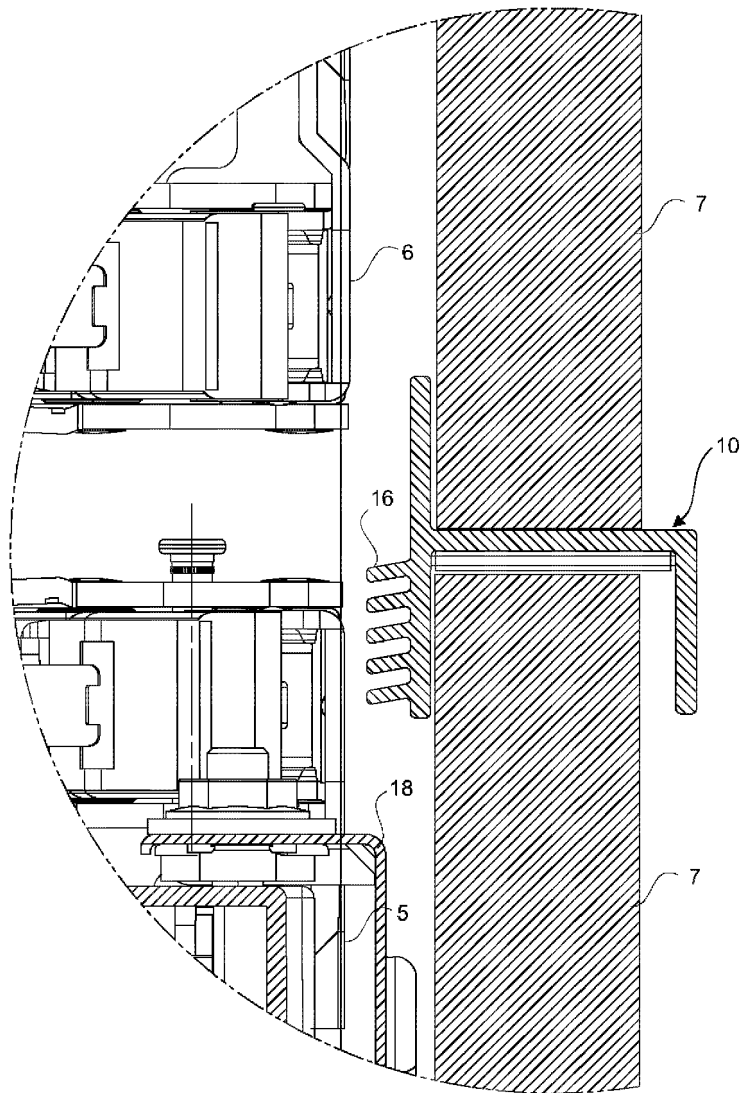


Figure 9



REFERENCES CITED IN THE DESCRIPTION

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