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(54) HOUSING AND WALL-MOUNTED AIR CONDITIONER

GEHÄUSE UND WANDMONTIERTE KLIMAANLAGE

BOÎTIER ET CLIMATISEUR MURAL

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Description

TECHNICAL FIELD

[0001] The present disclosure generally relates to the technical field of air conditioner, and more particularly relates to a housing, and an indoor unit of a wall-mounted air conditioner.

BACKGROUND

[0002] The demand for appearance of the indoor unit of the wall-mounted air conditioner is increasing with continuous improvement of human daily life. So the housings of most indoor units are now arranged with decorative strips for beautifying appearance. However, the decorative effect is poor as the decorative strip is only arranged on the panel. In consequence, user's demand for good appearance has not been satisfied.

[0003] CN 103 868 218 A discloses an indoor unit of an air conditioner including a housing body, a front panel, and a decorative panel. The housing body includes a front housing and a rear housing. A front panel and a decorative panel for decorative purposes are respectively wrapped around the front and side portions of the front case. The decorative panel includes a decorative panel bottom located below the front casing and a side portion extending upward from both ends of the decorative panel bottom and enclosing the side of the front casing. The decorative panel with its portions and the housing body are fixedly connected by a snap connection structure. Further state of the art is known from CN 203 024 372 U.

SUMMARY

[0004] It is therefore one main objective of the invention to provide a housing for an indoor unit of a wall-mounted air conditioner, which aims to improve the overall appearance of the indoor unit of the wall-mounted air conditioner and which may be mounted simply.

[0005] In order to realize the above objective, the present invention provides a
a housing according to claim 1.

[0006] Optionally, a thickness of a connecting portion of each of the two side decorative strips is same as that of a connecting portion of the front decorative strip along a front-back direction.

[0007] Optionally, a thickness of other portion of each of the two side decorative strips is gradually decreased along a direction away from the connecting portion.

[0008] Optionally, the front decorative strip is fastened and fixed to the panel.

[0009] Optionally, the front decorative strip includes an upper surface and a positioning element protruded upwards from the upper surface. The panel includes a lower edge and an avoiding hole formed in the lower edge, and the positioning element is locked in the avoiding hole.

[0010] Optionally, the housing further includes two end covers mounted to left and right ends of the face frame respectively, and each of the two side decorative strips is disposed on an outer side of one corresponding end cover.

[0011] Optionally, wherein the outer side of each of the two end cover is provided with a mounting groove, and each of the two side decorative strips is fastened and fixed in one corresponding mounting groove.

[0012] Optionally, each of the two side decorative strips is S shaped and arranged on the outer side of one corresponding end cover.

[0013] The present invention further provides an indoor unit of a wall-mounted air conditioner, including a housing. The housing includes:

a face frame having an air outlet;
a panel mounted to a front side of the face frame, wherein the air outlet is adjacent to a lower edge of the panel;
a front decorative strip mounted to the lower edge of the panel; and
two side decorative strips mounted to left and right ends of the face frame respectively, and connected to the front decorative strip.

[0014] According to the technical solution of the present invention the front decorative strip is mounted to the lower edge of the panel, and the two side decorative strips are mounted to the left and right ends of the face frame, respectively, and the front decorative strip are connected with the side decorative strips. In this way, the front decorative strip can significantly improve the decorative effect of the panel, especially the decorative effect of the front side of the housing; the two side decorative strips can further significantly improve the decorative effects on the left and right sides of the housing. Meanwhile, the front decorative strip is connected to the side decorative strips, thereby achieving a continuous appearance. As the indoor unit of the wall-mounted air conditioner presents a three-dimensional decorative effect, the

overall appearance of the indoor unit of the wall-mounted air conditioner is significantly improved, thereby effectively enhancing the market competitiveness.

BRIEF DESCRIPTION OF THE DRAWINGS

[0015] To illustrate the technical solutions according to the embodiments of the present invention or in the prior art more clearly, the accompanying drawings for describing the embodiments or the prior art are introduced briefly in the following. Apparently, the accompanying drawings in the following description are only about some embodiments of the present invention, and persons of ordinary skill in the art can derive other drawings from the accompanying drawings without creative efforts.

FIG. 1 is a partial structural diagram of an indoor unit of a wall-mounted air conditioner according to an exemplary embodiment of the present invention
FIG. 2 is a partial structural diagram of the indoor unit of the wall-mounted air conditioner shown in Figure 1;
FIG. 3 is an enlarged diagram of portion A shown in Fig. 2;
FIG. 4 is an exploded diagram of the indoor unit of the wall-mounted air conditioner shown in Fig. 2;
FIG. 5 is a schematic diagram showing the assembling structure of the front decorative strip and the side decorative strips of Fig. 2;
FIG. 6 is an enlarged diagram of portion B shown in Fig. 5.

[0016] Labels illustration for drawings:

Table 1

Label	Name	Label	Name
1	indoor unit of wall-mounted air conditioner	121	avoiding hole
10	housing	130	front decorative strip
100	face frame	131	positioning element
110	air outlet	140	side decorative strip
120	panel	150	end cover

[0017] The realization of the aim, functional characteristics, advantages of the present invention are further described specifically with reference to the accompanying drawings and embodiments.

DETAILED DESCRIPTION

[0018] The technical solutions of the embodiments of the present invention will be clearly and completely described in the following with reference to the accompanying drawings. It is obvious that the embodiments to be described are only a part rather than all of the embodiments of the present invention. All other embodiments obtained by persons skilled in the art based on the embodiments of the present invention without creative efforts shall fall within the protection scope of the present invention as defined in the claims.

[0019] It is to be understood that, all of the directional instructions in the exemplary embodiments of the present disclosure (such as top, down, left, right, front, back...) can only be used for explaining relative position relations, moving condition of the elements under a special form (referring to figures), and so on, if the special form changes, the directional instructions changes accordingly.

[0020] In addition, the descriptions, such as the "first", the "second" in the exemplary embodiment of present disclosure, can only be used for describing the aim of description, and cannot be understood as indicating or suggesting relative importance or impliedly indicating the number of the indicated technical character. Therefore, the character indicated by the "first", the "second" can express or impliedly include at least one character. In addition, the technical proposal of each exemplary embodiment can be combined with each other, however the technical proposal must base on that the ordinary skill in that art can realize the technical proposal, when the combination of the technical proposals occurs contradiction or cannot realize, it should consider that the combination of the technical proposals does not existed, and is not contained in the protection scope required by the present disclosure.

[0021] The present invention proposes a housing, applied to an indoor unit of an air conditioner.

[0022] In an embodiment of the present invention, referring to FIGS. 1 to 6, the housing 10 includes:

a face frame 100 having an air outlet 110;
a panel 120 mounted to a front side of the face frame 100, the air outlet 110 is adjacent to a lower edge of the panel 120;
a front decorative strip 130 mounted to the lower edge of the panel 120; and
two side decorative strips 140 mounted to left and right ends of the face frame 100 respectively, and connected to the front decorative strip 130.

[0023] The indoor unit 1 includes the face frame 100 and the panel 120. The outer surface of the face frame 100 is provided with the panel 120. The air outlet 110 is formed in a lower portion of the front side of the face frame 100. The air outlet 110 is adjacent to the lower edge of the panel 120.

[0024] According to the invention, in order to beautifying the housing 10 further includes a front decorative strip 130 and two side decorative strips 140, and the front decorative strip 130 is mounted on the lower edge of the panel 120, two side decorative strips 140 are respectively mounted on the left and right ends of the face frame 100 respectively, and the front decorative strip 130 is connected to the side decorative strips 140. It can be understood that the front decorative strip 140 can significantly improve the decorative effect of the panel 120, especially the decorative effect of the front side of the housing 10; the two side decorative strips 130 can further significantly improve the decorative effects on the left and right sides of the housing 10. Meanwhile, the front decorative strip 130 is connected to the side decorative strips 140, thereby achieving a continuous appearance. As the indoor unit 1 presents a three-dimensional decorative effect, the overall appearance of the indoor unit 1 is significantly improved, thereby effectively enhancing the market competitiveness.

[0025] It should be noted that the front decorative strip 130 may be fixed on the panel 120 by welding, gluing or the like; or the front decorative strip 130 may be detachably connected to the panel 120 by a fastener connecting mode, a screw connecting mode, or the like. Similarly, the side decorative strips 140 can also be fixed to the left and right ends of the face frame 100 in various ways which do not need to be further described herein.

[0026] According to the technical solution of the present invention the front decorative strip 130 is mounted to the lower edge of the panel 120, and the two side decorative strips 140 are mounted to the left and right ends of the face frame 100, respectively, and the front decorative strip 130 are connected with the side decorative strips 140. In this way, the front decorative strip 140 can significantly improve the decorative effect of the panel 120, especially the decorative effect of the front side of the housing 10; the two side decorative strips 130 can further significantly improve the decorative effects on the left and right sides of the housing 10. Meanwhile, the front decorative strip 130 is connected to the side decorative strips 140, thereby achieving a continuous appearance. As the indoor unit 1 presents a three-dimensional decorative effect, the overall appearance of the indoor unit 1 is significantly improved, thereby effectively enhancing the market competitiveness.

[0027] Further, according to the invention, the left and right end faces of the front decorative strip 130 are inclined rearwards, and the end faces of the side decorative strips 140 which are connected to the end faces of the front decorative strip 130 are inclined forwards. It can be understood that the front decorative strip 130 is pre-mounted on the panel 120, and the side decorative strips 140 are also pre-mounted on the face frame 100. When it needs to mount the panel 120 on the face frame 100, in order to connect the front decorative strip 130 with the side decorative strips 140 easily, end surfaces of the front decorative strip 130 and another end surfaces of the side decorative strips 140 connected with the end surfaces of the front decorative strip 130 are all defined as inclined surface, the inclined surfaces of the front decorative strip 130 are all inclined towards side decorative strips 140 along the back-front direction. The panel 120 is mounted to the face frame 100 along the front-back direction. On the one hand, the front decorative strip 130 can be easily connected to the side decorative strips 140, so that a interference between the front decorative strip 130 and the side decorative strip 140 can be avoided when the panel 120 is mounted to the face frame 100, thereby connecting the panel 120 with the face frame 100 easily. On the other hand, from user's point of view, a mounting gap between the from decorative strip 130 and each side decorative strip 140 is much more small as a result of the inclined surfaces, thereby beautifying the appearance of the indoor unit 1.

[0028] In order to ensure the consistency of the decorative effect of the connecting portions of the side decorative strips 140 and the front decorative strip 130, in the exemplary embodiment, a thickness of each side decorative strip 140 is the same as that of the front decorative strip 130, thereby realizing a continuous appearance. In some optional embodiments, a thickness of other portion of each side decorative strips 140 is gradually decreased in a direction away from the connecting portion of the side decorative strip 140.

[0029] Further, in the exemplary embodiment, the front decorative strip 130 is detachably mounted on the panel 120, to facilitate the disassembly and assembly of the front decorative strip 130. Optionally and the front decorative strip 130 is fastened and fixed to the panel 120.

[0030] In the above embodiment, in order to facilitate the assembly of the front decorative strip 130 and the panel 120, the upper surface of the front decorative strip 130 is convexly provided with a positioning element 131, and the lower edge of the panel 120 is provided with an avoiding hole 121 which is matched with the positioning element 131. In this way, when it needs to mount the front decorative strip 130 to the panel 120, the positioning element 131 is firstly inserted

into the avoiding hole 121 for pre-locating the front decorative strip 130 into the avoiding hole 121. Then the front decorative strip 130 is fixed to the panel 120. As such the defect of misplacing the front decorative strip 130 can be effectively avoided, the front decorative strip 130 can be mounted to the panel 120 conveniently.

[0031] In the exemplary embodiment, in order to mount the positioning element 131 into the avoiding hole 121 easily, the positioning element 121 is configured to extend along a length direction of the decorative strip 130, and the length of the positioning element 131 parallel to the length direction of the decorative strip 130 is gradually decreased along the protruding direction of the positioning element 131. It is provided that the positioning element 131 is tapered in its protruding direction. In this way, the positioning element 131 has a trapezoidal shape, and a protruding end of the positioning element 131 is small, so that the positioning element 131 can be easily fastened into the avoiding hole 121.

[0032] It should be emphasized that, when it needs to mount the decorative strip 130 to the panel 120, the middle part of the decorative strip 130 is mounted to the panel 120 first. As the decorate strip 130 is very long, it is prone to occur a misalignment. In the exemplary embodiment, in order to overcome the misalignment, the end of the decorative strip 130 is provided with the positioning element 131. When it need to mount decorative strip 130 to the panel 120, the positioning element 131 is mounted to the panel 120 first, which is much more in conformity with workers' assembly habit and conducive to the assembly of the decorative strip 130. Meanwhile, the positioning element 131 is defined at the end of the decorative strip 130, thereby achieving a good mistake proofing effect and reducing a misalignment probability.

[0033] Further, the housing 10 further includes two end covers 150 mounted to left and right ends of the face frame 100, and each side decorative strip 140 are disposed on an outer side of corresponding end cover 150. In detail, there are two end covers 150, and two end covers 150 are mounted to left and right ends of the face frame 100 respectively. The injection model is generally used as the end cover 150. The side decorative strips 140 are integrally formed with the end covers 150 through an injection process; or the side decorative strips 140 are detachably mounted to the outer side of the end covers 150 respectively.

[0034] Preferably, an outer side surface of each end cover 150 is provided with a mounting groove, the side decorative strips 140 are embedded into one corresponding mounting groove. The side decorative strips 140 are fastened and fixed in the mounting groove, the manufacturing difficulty of the end covers 150 is reduced, and the decorative strips 140 can be easily mounted to or detached from the end covers 150.

[0035] Further, in the embodiment, each of the two side decorative strips 140 is S shaped and arranged on the outer side of one corresponding end cover 150, thereby improving the decorative effect of the side decorative strips 140. As such the indoor unit of the wall-mounted air conditioner 1 has a good appearance.

[0036] Referring to FIGS. 1 and 2, the present invention also provides an indoor unit of a wall-mounted air conditioner 1, which includes a housing 10. The specific structure of the housing 10 can be referred to the above embodiments. As the indoor unit 1 adopts all the technical solutions of the above exemplary embodiments, the indoor unit 1 at least has all of the beneficial effects of the technical solutions of the above exemplary embodiments, no need to repeat again.

[0037] The foregoing description merely depicts some embodiments of the present disclosure and therefore is not intended to limit the scope of the present invention, which is defined by the claims.

Claims

1. A housing (10), suitable for an indoor unit of a wall-mounted air conditioner (1), wherein the housing (10) comprises:

a face frame (100) having an air outlet (110);
a panel (120) mounted to a front side of the face frame (100), wherein the air outlet (110) is adjacent to a lower edge of the panel (120);
characterized in that the housing (10) comprises:

a front decorative strip (130) mounted to the lower edge of the panel (120); and
two side decorative strips (140) mounted at left and right ends of the face frame (100) respectively, and both connected and fitted to the front decorative strip (130),

wherein the front decorative strip (130) comprises:

left and right end surfaces both inclined rearwards,
wherein each of the two side decorative strips (140) comprises:
at least one end face connected and fitted to the left end surface of the front decorative strip (130) or to the right end surface of the front decorative strip (130), and inclined forwards.

2. The housing (10) according to claim 1,
wherein a thickness of a connecting portion of each of the two side decorative strips (140) is the same as that of a connecting portion of the front decorative strip (130) along a front-back direction.

3. The housing (10) according to any one of claims 1 to 2,
wherein a thickness of each of the two side decorative strips (140) is gradually decreased along a direction away from the connecting portion.

4. The housing (10) according to any one of claims 1 to 3,
wherein the front decorative strip (130) is fitted and fixed to the panel (120).

5. The housing (10) according to any one of claims 1 to 4,
wherein the front decorative strip (130) comprises:

an upper surface; and
a positioning element (131) protruded upwards from the upper surface,
wherein
an avoiding hole (121) for the positioning element (131) to be fitted into the avoiding hole (121), is arranged in the lower edge of the panel (120).

6. The housing (10) according to any one of claims 1 to 5, comprising:

two end covers (150) mounted at the left and right ends of the face frame (100) respectively,
wherein each of the two side decorative strips (140) is disposed on an outer side of each of the corresponding end cover (150).

7. The housing (10) according to any one of claims 1 to 6,

wherein the outer side of each of the two end cover (150) is provided with a mounting groove,
wherein each of the two side decorative strips (140) is fitted and fixed into each of the corresponding mounting groove.

8. The housing (10) according to any one of claims 1 to 7,
wherein each of the two side decorative strips (140) is S shaped and arranged on the outer side of each of the corresponding end cover (150).

9. The housing (10) according to claim 4, comprising:

two end covers (150) mounted at the left and right ends of the face frame (100) respectively,
wherein each of the two side decorative strips (140) is disposed on an outer side of each of the corresponding end cover (150).

10. An indoor unit of a wall-mounted air conditioner (1), comprising:
a housing (10) as recited in any one of claims 1-9.

Patentansprüche

1. Gehäuse (10), geeignet für eine Innenraumeinheit einer wandmontierten Klimaanlage (1), wobei das Gehäuse (10) Folgendes umfasst:

einen Frontrahmen (100) aufweisend einen Luftauslass (110);
eine Blende (120), die an einer Vorderseite des Frontrahmens (100) befestigt ist, wobei der Luftauslass (110) an einer unteren Kante der Blende (120) anliegt;
dadurch gekennzeichnet, dass das Gehäuse (10) Folgendes umfasst:

einen vorderen Zierstreifen (130), der an der unteren Kante der Blende (120) befestigt ist; und
zwei seitliche Zierstreifen (140), die jeweils am linken bzw. rechten Ende des Frontrahmens (100) befestigt

sind und beide mit dem vorderen Zierstreifen (130) verbunden und daran befestigt sind,

wobei der vordere Zierstreifen (130) Folgendes umfasst:

linke und rechte Endflächen, die beide nach hinten geneigt sind,
wobei jeder der zwei seitlichen Zierstreifen (140) Folgendes umfasst:
mindestens eine Endfläche, die mit der linken Endfläche des vorderen Zierstreifens (130) oder der rechten Endfläche des vorderen Zierstreifens (130) verbunden und daran befestigt und nach vorne geneigt ist.

2. Gehäuse (10) gemäß Anspruch 1,
wobei eine Dicke eines Verbindungsbereichs von jedem der zwei seitlichen Zierstreifen (140) die gleiche wie die eines Verbindungsbereichs des vorderen Zierstreifens (130) entlang einer Vorne-Hinten-Richtung ist.

3. Gehäuse (10) gemäß einem der Ansprüche 1 bis 2,
wobei eine Dicke von jedem der zwei seitlichen Zierstreifen (140) entlang einer Richtung weg von dem Verbindungsbereich allmählich abnimmt.

4. Gehäuse (10) gemäß einem der Ansprüche 1 bis 3,
wobei der vordere Zierstreifen (130) an der Blende (120) befestigt und fixiert ist.

5. Gehäuse (10) gemäß einem der Ansprüche 1 bis 4,
wobei der vordere Zierstreifen (130) Folgendes umfasst:

eine obere Fläche; und
ein Positionierungselement (131), das von der oberen Fläche nach oben vorsteht,
wobei
ein Ausweichloch (121) für das in das Ausweichloch (121) einzupassende Positionierungselement (131) in der Unterkante der Blende (120) angeordnet ist.

6. Gehäuse (10) gemäß einem der Ansprüche 1 bis 5, umfassend:

zwei Endabdeckungen (150), die jeweils am linken und rechten Ende des Frontrahmens (100) befestigt sind,
wobei jeder der zwei seitlichen Zierstreifen (140) an einer Außenseite jeder der entsprechenden Endabdeckungen (150) angeordnet ist.

7. Gehäuse (10) gemäß einem der Ansprüche 1 bis 6,
wobei die Außenseite jeder der zwei Endabdeckungen (150) mit einer Befestigungsnut versehen ist, wobei jeder der zwei seitlichen Zierstreifen (140) in jede der entsprechenden Befestigungsnuten befestigt und fixiert ist.

8. Gehäuse (10) gemäß einem der Ansprüche 1 bis 7,
wobei jeder der zwei seitlichen Zierstreifen (140) S-förmig ist und an der Außenseite jeder der entsprechenden Endabdeckungen (150) angeordnet ist.

9. Gehäuse (10) gemäß Anspruch 4, umfassend:

zwei Endabdeckungen (150), die jeweils am linken und rechten Ende des Frontrahmens (100) befestigt sind,
wobei jeder der zwei seitlichen Zierstreifen (140) an einer Außenseite jeder der entsprechenden Endabdeckungen (150) angeordnet ist.

10. Innenraumeinheit einer wandmontierten Klimaanlage (1), umfassend:
ein Gehäuse (10) wie in einem der Ansprüche 1-9 beschrieben.

Revendications

1. Boîtier (10) adapté pour une unité intérieure d'une climatisation murale (1), le boîtier (10) comprenant :

un cadre de face (100) comportant une sortie d'air (110) ;

un panneau (120) monté sur un côté frontal du cadre de face (100), la sortie d'air (110) étant adjacente à un bord inférieur du panneau (120) ;
caractérisé en ce que le boîtier (10) comprend :

une bande décorative frontale (130) montée sur le bord inférieur du panneau (120) ; et
deux bandes décoratives latérales (140) montées à des extrémités gauche et droite du cadre de face (100) respectivement, et toutes deux reliées et ajustées à la bande décorative frontale (130),

dans lequel la bande décorative frontale (130) comprend :

des surfaces d'extrémité gauche et droite toutes deux inclinées vers l'arrière,
dans lequel chacune des deux bandes décoratives latérales (140) comprend :
au moins une face d'extrémité reliée et ajustée à la surface d'extrémité gauche de la bande décorative frontale (130) ou à la surface d'extrémité droite de la bande décorative frontale (130), et inclinée vers l'avant.

2. Boîtier (10) selon la revendication 1,
dans lequel une épaisseur d'une portion de raccordement de chacune des deux bandes décoratives latérales (140) est la même que celle d'une portion de raccordement de la bande décorative frontale (130) le long d'une direction avant-arrière.

3. Boîtier (10) selon l'une quelconque des revendications 1 à 2,
dans lequel une épaisseur de chacune des deux bandes décoratives latérales (140) diminue progressivement le long d'une direction à distance de la portion de raccordement.

4. Boîtier (10) selon l'une quelconque des revendications 1 à 3,
dans lequel la bande décorative frontale (130) est ajustée et fixée au panneau (120).

5. Boîtier (10) selon l'une quelconque des revendications 1 à 4,
dans lequel la bande décorative frontale (130) comprend :

une surface supérieure ; et
un élément de positionnement (131) faisant saillie vers le haut à partir de la surface supérieure,
dans lequel
un trou d'évitement (121) destiné au positionnement de l'élément de positionnement (131) dans le trou d'évitement (121) est disposé dans le bord inférieur du panneau (120).

6. Boîtier (10) selon l'une quelconque des revendications 1 à 5, comprenant :

deux couvercles d'extrémité (150) montés à des extrémités gauche et droite du cadre de face (100) respectivement,
dans lequel chacune des deux bandes décoratives latérales (140) est disposée sur un côté extérieur de chaque couvercle d'extrémité (150) correspondant.

7. Boîtier (10) selon l'une quelconque des revendications 1 à 6,

dans lequel le côté extérieur de chacun des deux couvercles d'extrémité (150) est doté d'une rainure de montage,
dans lequel chacune des deux bandes décoratives latérales (140) est ajustée et fixée dans chaque rainure de montage correspondante.

8. Boîtier (10) selon l'une quelconque des revendications 1 à 7,
dans lequel chacune des deux bandes décoratives latérales (140) présente une forme en S et est disposée sur le côté extérieur de chaque couvercle d'extrémité (150) correspondant.

9. Boîtier (10) selon la revendication 4, comprenant :

deux couvercles d'extrémité (150) montés à des extrémités gauche et droite du cadre de face (100) respectivement,
dans lequel chacune des deux bandes décoratives latérales (140) est disposée sur un côté extérieur de chaque

couvercle d'extrémité (150) correspondant.

10. Unité intérieure d'une climatisation murale (1), comprenant :
un boîtier (10) selon l'une quelconque des revendications 1 à 9.

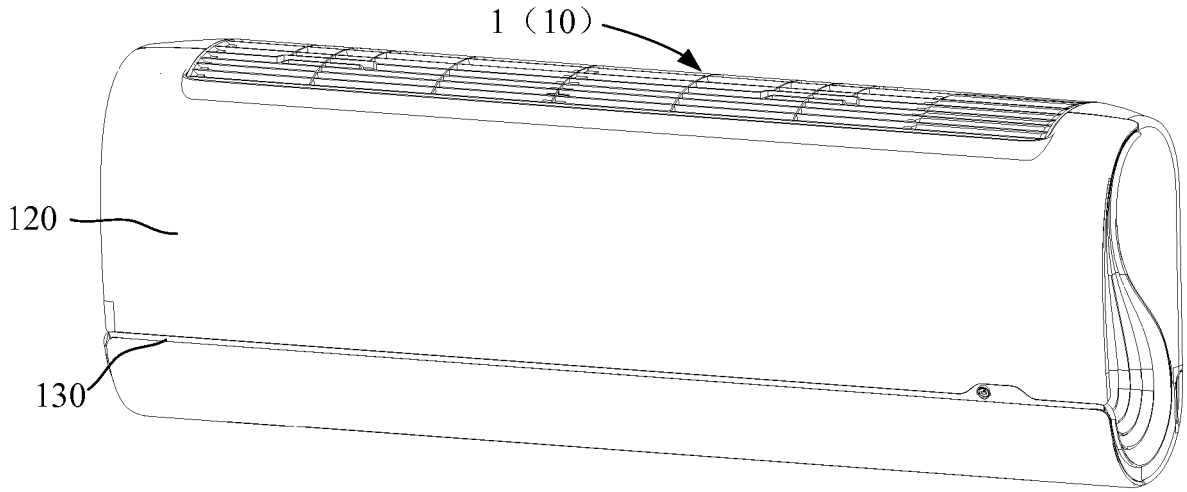

FIG. 1

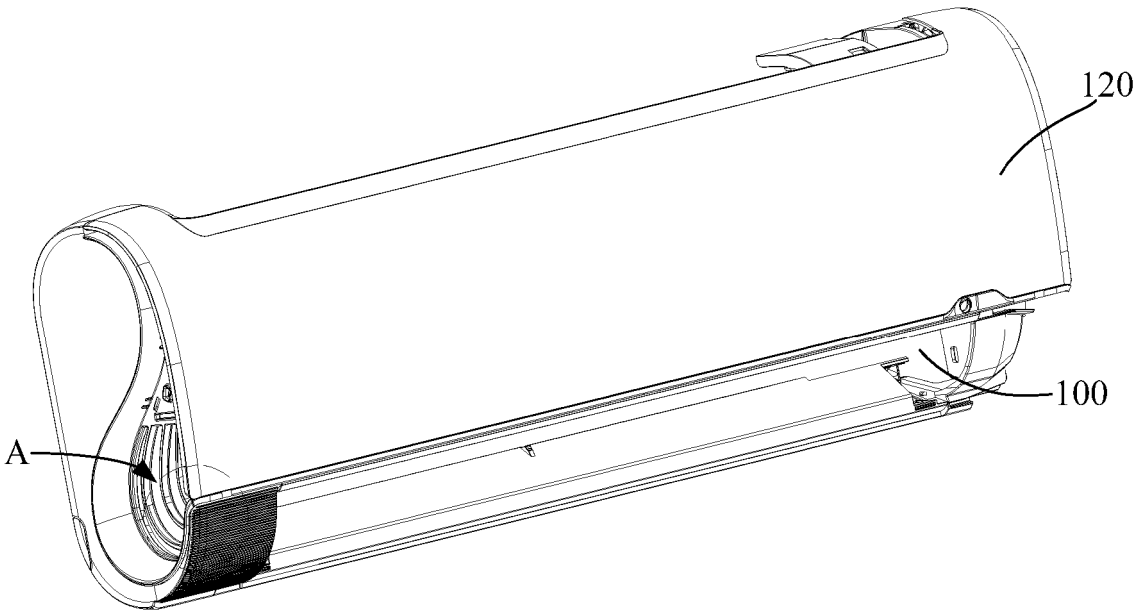

FIG. 2

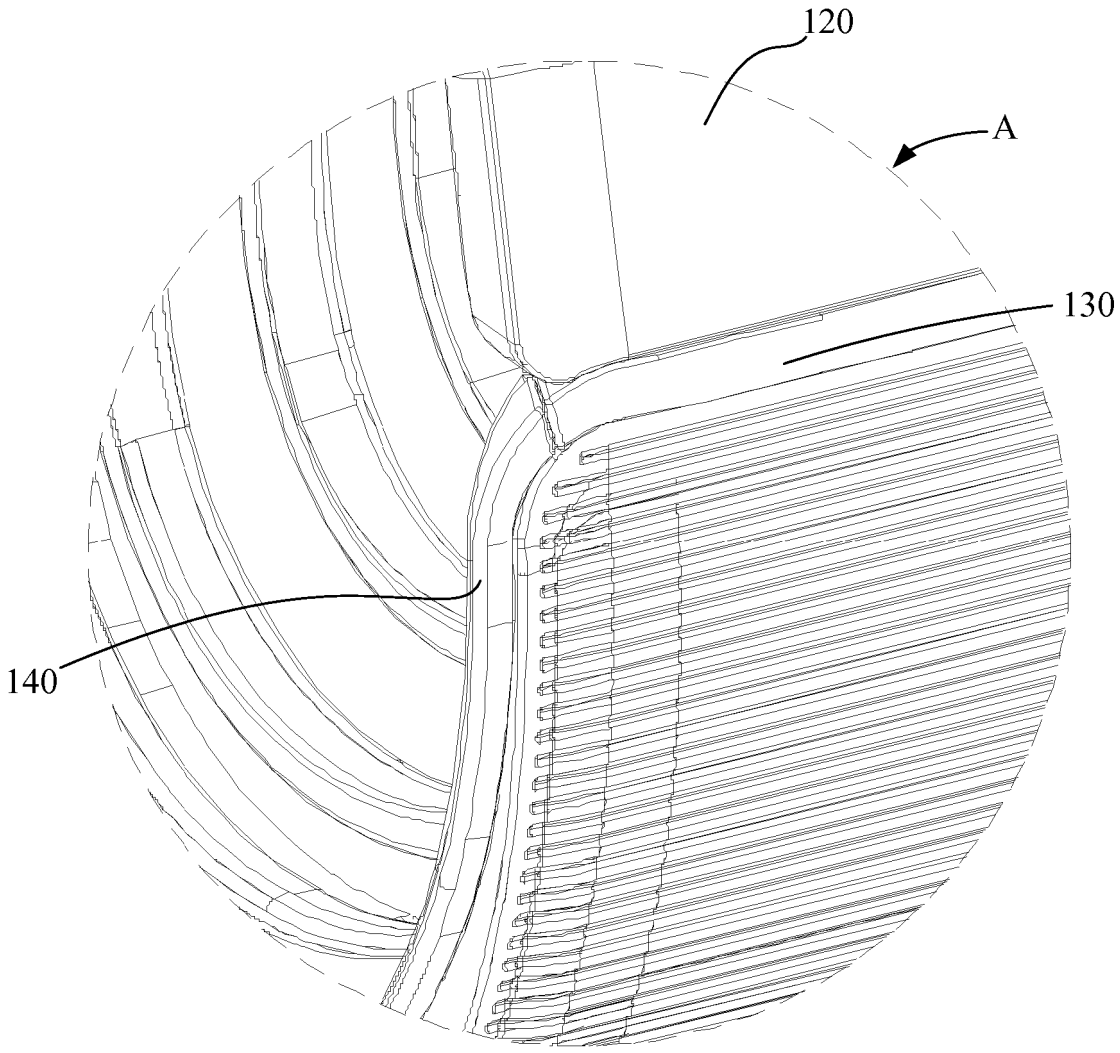

FIG. 3

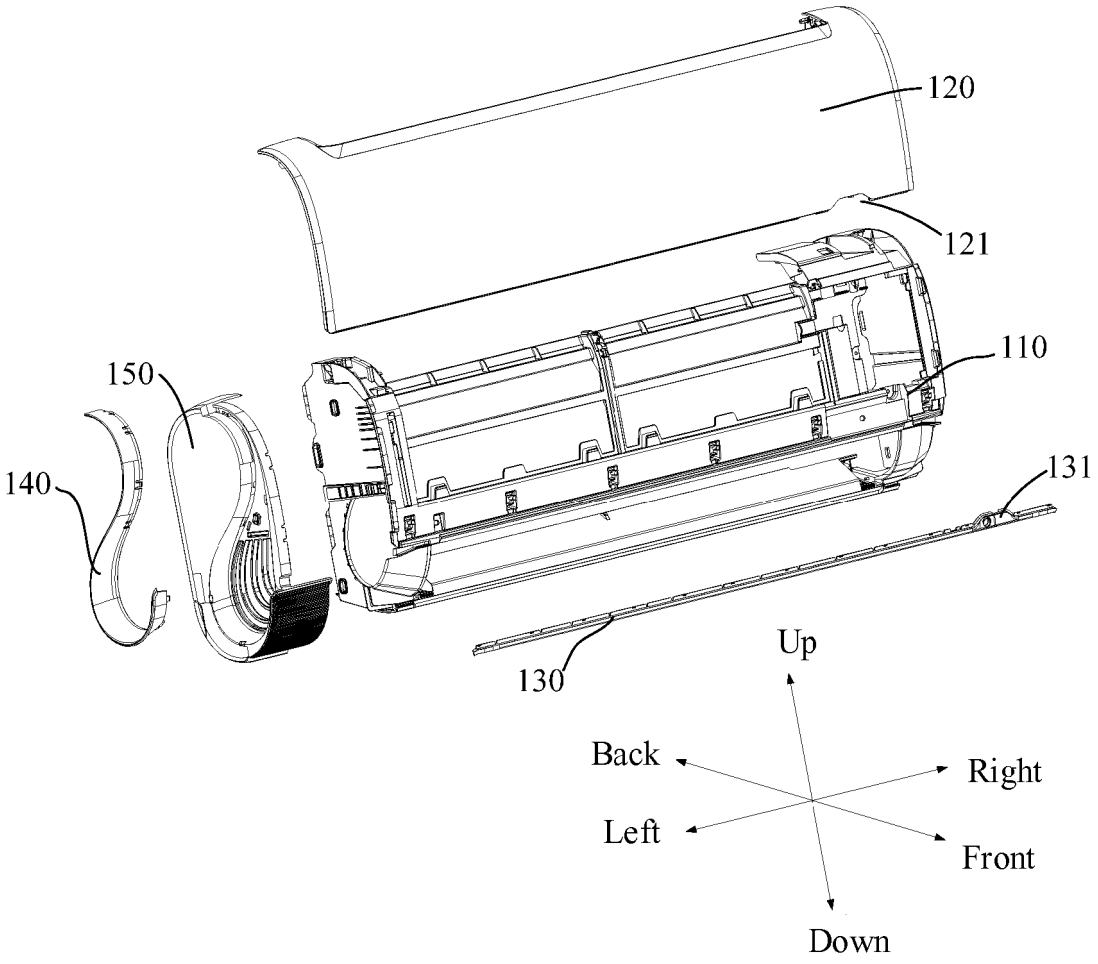

FIG. 4

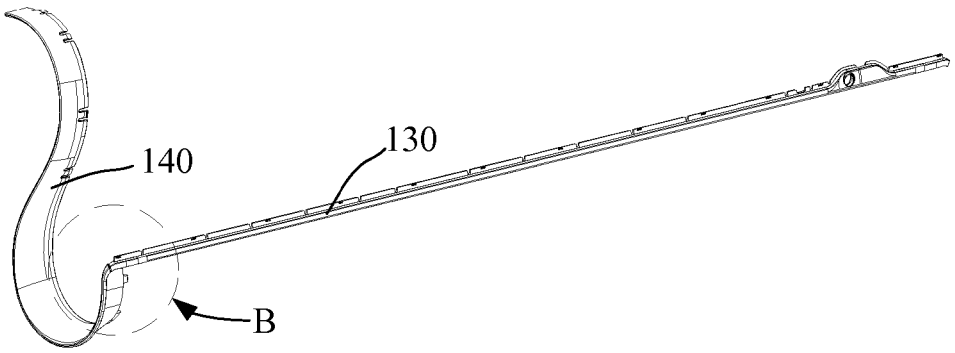

FIG. 5

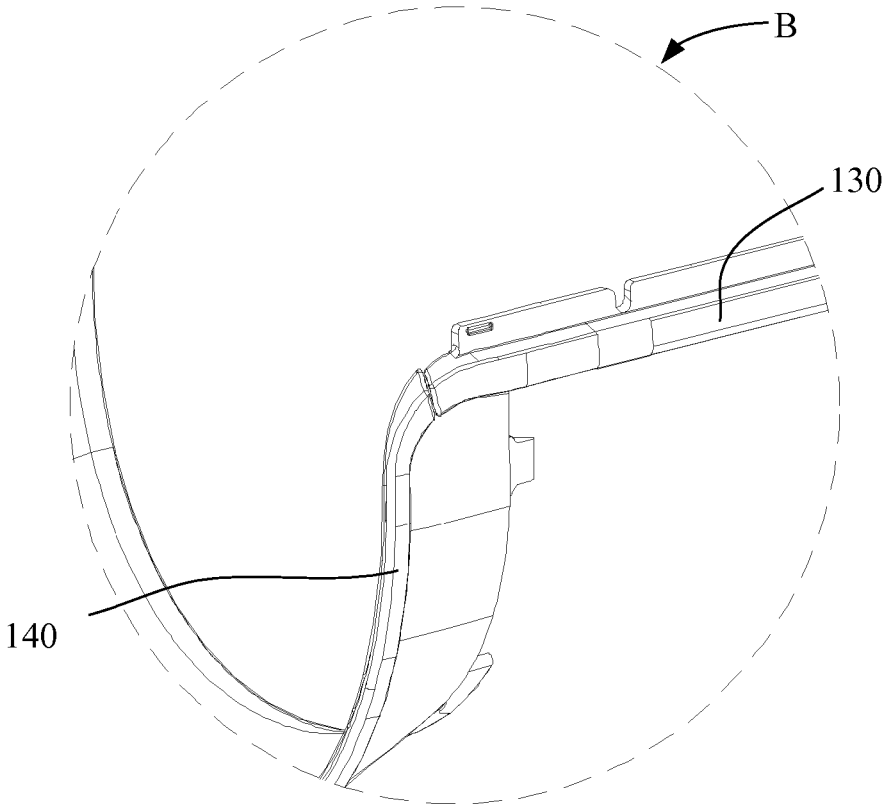

FIG. 6

REFERENCES CITED IN THE DESCRIPTION

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Patent documents cited in the description

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