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(54) **AIR CONDITIONER**

KLIMAANLAGE

CLIMATISEUR

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Description

Technical Field

[0001] The present invention relates to the technical field of air conditioning, and in particular, to an air conditioner.

Background

[0002] The air conditioner refers to an apparatus for adjusting and controlling parameters such as temperature, humidity, cleanliness and speed of ambient air in a building or building by means of manual means, and after long use, the air conditioner will distribute dust on its evaporator and air duct components, and the humid environment is easy to happen to many bacteria, which brings great threat to the user's health.

[0003] In order to improve this problem, today's evaporators and air duct components of an air conditioner are often designed in a detachable structure to facilitate cleaning of the evaporator and the air duct components. However, since the drainage pipe in the air conditioner is directly connected to the air duct components and a water passage of a bottom case, the air duct components is blocked by the drainage pipe during disassembly, it is also necessary to disassemble the drainage pipe while disassembling the cleaning, which not only causes an increase in the disassembly cleaning workload, but also causes the disassembly of the drainage pipe when the drainage pipe is blocked, thereby increasing the difficulty of cleaning. For this reason, how to individually dispose the drainage pipe so that the drainage pipe is not dismounted when the evaporator and the air duct components are dismounted becomes a problem to be solved today.

[0004] KR20070065511A discloses a drain pan of an indoor unit for an air conditioner is provided to prevent condensate from falling outside of the drain pan by structuring a drain pan area to correspond to a projection area toward bottom of a heat exchanger. A drain pan of an indoor unit for an air conditioner includes a plurality of foreign substance filtering bosses, and condensate transferring hole. The foreign substance filtering bosses are installed along a left and right direction at front side of top surface of the drain pan, are separated from each other making a uniform distance with a cross section of a semicircle shape. The foreign substance filtering bosses filter foreign substances while condensate flows into an area without the foreign substance filtering bosses. The condensate transferring hole transfers the condensate flowing to front by the top surface of the drain pan with a declining toward the bottom through the drain pan. The condensate transferring hole is connected to one side of a drain guiding hole.

Summary

[0005] The scope of the present invention is defined by the claims.

[0006] To this end, the technical problem to be solved by the present invention is to overcome the technical drawbacks of the conventional air conditioner indoor unit due to a drainage pipe directly connecting to an air duct component, result in a drainage pipe need be dismount when disassembling an air duct system.

[0007] In order to achieve the above object, an embodiment of the present invention provides an air conditioner, including a base and a water receiving structure, wherein an air duct component is provided on the base; the water receiving structure is arranged on the base, including a housing, a lug and a switch matching structure, the housing is provided with a water catcher and a drainage pipe, and the drainage pipe is in communication with the water catcher and extends out of the housing; the lugs are fixedly mounted on the housing; the switch matching structure is arranged on the base, and the lugs match with the switch matching structure to switch the connecting passage between the water catcher and a water passage of a bottom case of the air duct component.

[0008] In an exemplary embodiment, the switch matching structure is provided with an open position and a closed position, and the lug is movable between the open position and the closed position for opening or closing the connecting passage.

[0009] In an exemplary embodiment, the switch matching structure includes a fixing seat, the fixing seat is provided with a fixing groove with an opening at one end of the fixing groove, and a bottom wall of the fixing groove opposite to the opening is provided with a limiting plate protruding outward; the lug is movably mounted in the fixing groove, the limiting plate defines that the lug is moved between the open position and the closed position.

[0010] In an exemplary embodiment, the limiting plate is provided with an abutting portion, the lug is provided with a limiting hole, the abutting portion extends into the limiting hole, and the abutting portion moveable abuts against two sides of the limiting hole opposite with the bottom wall, so that the lug moves between the open position and the closed position.

[0011] In an exemplary embodiment, at least one guide groove is provided on the lug along a moving direction of the lug; at least one guide rib is protruded from an inner wall of the fixing groove corresponding to the guide groove, and the at least one guide rib slides in the guide groove.

[0012] In an exemplary embodiment, a fixing positioning is protruded from the lug toward the bottom wall of the fixing groove, and an elastic member is sheathed on the fixing positioning, the elastic member is compressively housed in the fixing groove, and a biasing force of the elastic member in a direction away from the bottom wall is applied to the lug.

[0013] In an exemplary embodiment, the housing is in a funnel shape, and when the lug is in the open position, a notch of the water catcher is communicated with a drainage port on a bottom base water passage.

[0014] In an exemplary embodiment, a limiting structure is provided on the housing, and when the lug is in the open position, the limiting structure limits relative movement of the housing and the bottom base water passage.

[0015] In an exemplary embodiment, the limiting structure is a concave structure arranged on one slot wall of the water catcher, and when the lug is in the open position, a water pipe where the drainage port is located in the concave structure, and the concave structure restricts the drainage port from moving along a dismantling direction of the water passage of the bottom case; When the lug is in the closed position, the water pipe slidingly exits the slot wall along an outer edge of the concave structure.

[0016] The air conditioner provided by the present invention has the following advantages:

1. In the air conditioner provided by the present invention, a water catcher and a drainage pipe are provided on the housing, and the drainage pipe is in communication with the water catcher and protrudes from the housing, thereby implementing communication between the water catcher and the outside; Meanwhile, the lug is fixedly mounted on the housing, the switch matching structure is provided on the base, and the lug matching with the switch matching structure to switch the connecting passage between the water catcher and a water passage of a bottom case of the air duct component, so that when the air duct component needs to be dismounted, only the connecting passage is closed through the switch matching structure, and the drainage pipe does need be dismounted, so the air duct component can be dismounted separately, and when the drainage pipe is blocked, the dirt falls in the water catcher or is still blocked in the drainage pipe, thereby simplifying the dismounting operation workload and operation difficulty.

2. In the air conditioner provided by the present invention, since the open position and the closed position are provided on the switch matching structure, the lug can be moved between the open position and the closed position for opening or closing the connecting passage, and then the communication and separation between the water receiving structure and the water passage can be realized through the matching between the switch matching structure and the lug.

3. In the air conditioner provided by the present invention, since the fixing seat of the switch matching structure is provided with a fixing groove with an opening a bottom wall of the fixing groove opposite to the opening is provided with a limiting plate; the lug is movably mounted in the fixing groove, and the limiting plate defines that the lug moves between the open position and the closed position, so that after the lug is provided in the fixing groove, the lug can be moved between the open position and the closed position by means of a limiting fit between the limiting plate and the lug.

4. The air conditioner provided by the present invention is provided with at least one guide groove on the lug along a moving direction of the lug; an inner wall of the fixing groove is provided with at least one guide rib corresponding to the guide groove protrusion, and the guide rib slides in the guide groove, so that the guide effect on the lug in the moving direction is realized through the engagement between the guide rib and the guide groove, and the stability of the lug moving in the fixing groove is also improved.

5. In the air conditioner provided by the present invention, since the lug is protruded and fixedly positioned toward a bottom wall of the fixing groove, the fixing positioning is sheathed with an elastic member, the elastic member is compressed and retracted in the fixing groove, and a biasing force of the elastic member in a direction away from the bottom wall is applied to the lug, and then when the housing is not subjected to an external force, the lug is pressed by the biasing force, so as to the lug is keep at the open position; when the housing is pressed, the elastic member is compressed, the lug is in the closed position, and the connecting passage is closed, that is, the air duct component can be detached separately.

6. In the air conditioner provided by the present invention, when the lug is in the open position, a notch of the water catcher is communicated with the drainage port on the water passage, thereby achieving communication between the water receiving structure and the water passage.

7. With the air conditioner provided by the present invention, a limiting structure is provided on the housing, and when the lug is in the open position, the limiting structure limits the relative movement between the housing and the water passage, thereby ensuring stability in the conductive state.

Brief Description of the Drawings

[0017] To illustrate the technical solutions of the embodiments of the present invention more clearly, the following further describes the present invention in detail with reference to the accompanying drawings.

Fig. 1 is a perspective view of an air conditioner according to an embodiment of the present invention;
Fig. 2 is a perspective view of a water receiving structure of the air conditioner shown in Fig. 1;
Fig. 3 is a perspective view of the air conditioner shown in Fig. 1 after disassembling the water receiving structure;
Fig. 4 is an enlarged view of a region A of the air

conditioner shown in Fig. 3;

Fig. 5 is a positional relationship diagram between the water receiving structure and the switch mating structure when the lug of the water receiving structure shown in Fig. 1 is in the open position;

Fig. 6 is a positional relationship diagram between the water receiving structure and the switch engaging structure when the lug of the water receiving structure shown in Fig. 1 is in the closed position.

[0018] Reference numerals in the figures are described below.

10, a housing; 11, grounding the seed; 12, a drainage pipe; 13, a slot wall; 20, lugs;

21, limiting hole; 22, a guide groove; 23, fixing; 200: base;

201: fixing seat; 202, a fixing groove; 203: limiting plate; 204: guide rib;

300, water passage; 301, a drainage port

Detailed Description of the Embodiments

[0019] The technical solutions of the present invention will be clearly and completely described below with reference to the accompanying drawings, and obviously, the described embodiments are a part of the embodiments of the present invention rather than all of the embodiments. Based on the embodiments of the present invention, all other embodiments obtained by those skilled in the art without creative efforts are fall within the scope of protection of the present invention.

[0020] In the description of the present invention, it should be noted that the orientations or positional relationships indicated by the terms "inside" and "outside" are based on the orientations or positional relationships shown in the drawings, and are merely for conveniently describing the present invention and simplifying the description. Instead of indicating or implying that the indicated device or element must have a particular orientation, be constructed and operated in a particular orientation, and so is not to be construed as limiting the present invention. Moreover, the terms "first," "second," are used for descriptive purposes only and cannot be understood to indicate or imply relative importance.

[0021] In the description of the present invention, it should be noted that the terms "installation", "connection" and "connection" should be understood broadly, for example, may be a fixed connection or a detachable connection unless expressly specified and defined otherwise; It may be a direct connection or a communication within two elements. For a person of ordinary skill in the art, the specific meaning of the above terms in the present invention can be understood in particular.

[0022] Moreover, the technical features involved in different embodiments of the present invention described below can be combined with each other as long as no conflict is constituted between each other.

[0023] An embodiment of the air conditioner shown in Figs. 1 and 2 includes a water receiving structure and a base 200, wherein the base 200 is a support and mounting base of the whole machine, and an air duct component (not shown in the figures), a heat exchange component (not shown in the figures), and an appearance component (not shown in the figures) are provided on the base 200; the water receiving structure is arranged on the base 200, the water receiving structure includes a housing 10, a lug 20 and a switch matching structure (not shown in the figure), the housing 10 is provided with a water catcher 11 and a drainage pipe 12, and the drainage pipe 12 is in communication with the water catcher 11 and extends out of the housing 10; the lug 20 is fixedly mounted on the housing 10; the switch matching structure is arranged on the base 200, and the lug 20 mates with the switch matching structure to switch the connecting passage between the water channel 11 and a water passage 300 of a bottom case of the air duct component.

[0024] The air conditioner is provided with a water catcher 11 and a drainage pipe 12 on the housing 10, and the drainage pipe 12 is in communication with the water catcher 11 and protrudes from the housing 10, thereby realizing communication between the water catcher 11 and the outside. Meanwhile, the lug 20 is fixedly mounted on the housing 10, the switch fitting structure is arranged on the base 200, and the lug 20 fits with the switch fitting structure so as to switch the connecting passage between the water catcher 11 and a water passage 300 of a bottom case of the air duct component, and further, when the air duct component is provided, the switch passage is opened. the water catcher 11 of the housing 10 is in communication with the water passage 300, and a water passage 300 receives the condensed water of the air duct component and can flow same into the water catcher 11, so as to discharge the water on the water passage 300; When the air duct component needs to be dismounted, the discharge pipe 12 need not be dismounted, and the connecting passage can be dismounted separately only by the switch matching structure, and when the discharge pipe 12 is blocked, the dirt is dismounted in the water catcher tank 11 or still blocked in the discharge pipe 12, thereby simplifying the dismounting operation workload and operation difficulty.

[0025] The switch matching structure is provided with an open position and a closed position, and the lug 20 can be moved between the open position and the closed position for opening or closing the connecting passage, and then the communication and separation between the water receiving structure and a water passage 300 can be realized through the matching between the switch matching structure and the lug 20. Specifically, as shown in Figs. 3 and 4, the switch matching structure includes a fixing seat 201, a fixing groove 202 with an opening at one end is provided on the fixing seat 201, a limiting plate 203 is provided on a bottom wall of the fixing groove 202 opposite to the opening, an abutting portion is provided on the limiting plate 203, and at least one guide rib 204

is provided on an inner wall of the fixing groove 202. The lug 20 is movably mounted in the fixing groove 202, and the limiting plate 203 defines the movement of the lug 20 between the open position and the closed position, so that after the lug 20 is provided in the fixing groove 202, the lug 20 can be moved between the open position and the closed position through a limiting fit between the limiting plate 203 and the lug 20.

[0026] As shown in Fig. 2, a limiting hole 21 is arranged on the lug 20 corresponding to the limiting plate 203, and the limiting hole 21 extends into the limiting hole 21 against the top to move against the opposite sides of the limiting hole 21 opposite with the bottom wall, so as to move the lug 20 between the open position and the closed position; Meanwhile, at least one guide groove 22 is arranged on the lug 20 corresponding to the guide rib 204, the guide rib 204 is arranged along the moving direction, the guide rib 204 slides in the guide groove 22, and then passes through the engagement between the guide rib 204 and the guide groove 22. The guiding effect of the lug 20 along a moving direction of the lug is achieved, and the stability of the lug 20 in the fixing groove 202 is also improved.

[0027] In order to realize the movement of the lug 20 between the open position and the closed position, a fixing positioning 23 is protruded from the lug 20 toward a bottom wall of the fixing groove 202, an elastic member (not shown) is sleeved on the fixing positioning 23, and the elastic member is compressed and retracted in the fixing groove 202. a biasing force of the elastic member in the direction away from a bottom wall is applied to the lug 20, that is, the lug 20 is subjected to the biasing force to exit the fixing groove 202, and when the housing 10 is not subjected to the external force, the lug 20 is kept in the open position by applying the biasing force to the lug 20, as shown in Fig. 5. In this case, the water receiving structure is in a communication state with the water passage 300. When the housing 10 is pressed, the elastic member is compressed, and the lug 20 is in the closed position, as shown in Fig. 6, at this time, the connecting passage is closed, that is, the air duct component can be detached separately. In the present embodiment, the elastic member is a spring.

[0028] In the present embodiment, in addition to the need to control the switch of the connecting passage between the water receiving structure and the water passage 300, it is often required to ensure that the connecting passage is opened and stable, that is, the stability of the communication state between the water receiving structure and the water passage 300 is required, and the housing 10 is funnel-shaped. When the lug 20 is in the open position, a notch of the water catcher 11 is communicated with the drainage port 301 on the water passage 300, thereby achieving communication between the water receiving structure and a water passage 300; Meanwhile, a limiting structure (not shown) is provided on the housing 10, and when the lug 20 is in the open position, the limiting structure limits the relative movement of the housing 10 and the water passage 300, thereby ensuring stability in the conductive state.

[0029] As an optional implementation, the limiting structure is a concave structure arranged on a slot wall 13 of the water catcher 11, and when the lug 20 is in the open position, the drainage pipe 12 where the drainage port 301 is located in the concave structure, and the concave structure restricts the drainage port 301 from moving in the dismounting direction of the water passage 300; When the lug 20 is in the closed position, the drainage pipe 12 slides out of the slot wall 13 along an outer edge of the concave structure, thereby limiting the relative movement between the housing 10 and a water passage 300 through the limiting structure.

[0030] Obviously, the above-described embodiments are merely examples made for clarity, and are not limited to the embodiments. Other variations or variations in different forms can also be made by those skilled in the art on the basis of the above description. All embodiments need not be exhaustive here. Apparently obvious variations or variations that are thus introduced are still within the scope of protection created by the present invention.

Claims

1. An air conditioner, comprising:

   a base (200), an air duct component provided on the base (200) , wherein the air duct component comprises a bottom case with a water passage (300);
   a water receiving structure provided on the base (200) and comprising:

   a housing (10) provided with a water catcher (11) and a drainage pipe (12) wherein the drainage pipe (12) is in communication with the water catcher (11) and extends out of the housing (10);
   a connecting passage between the water catcher (11) and the water passage (300);
   a lug (20), wherein the lug (20) is fixedly mounted on the housing (10); and
   a switch matching structure (201, 202, 203, 204),
   the air conditioner **characterized in that** the switch matching structure is provided on the base (200), and the lug (20) is configured to match with the switch matching structure to switch a connecting passage between the water catcher (11) and the water passage (300) of the bottom case of the air duct component.

2. The air conditioner as claimed in claim 1, wherein the switch matching structure is provided with an open position and a closed position, and the lug (20)

is movable between the open position and the closed position for opening or closing the connecting passage.

3. The air conditioner as claimed in claim 2, wherein the switch matching structure comprises a fixing seat (201), the fixing seat (201) is provided with a fixing groove (202) with an opening at one end of the fixing groove (202), and a bottom wall of the fixing groove (202) opposite to the opening is provided with a limiting plate (203) protruding outward; the lug (20) is movably mounted in the fixing groove (202), and the limiting plate (203) defines that the lug (20) is moved between the open position and the closed position.

4. The air conditioner as claimed in claim 3, wherein the limiting plate (203) is provided with an abutting portion, the lug (20) is provided with a limiting hole (21), and the abutting portion extends into the limiting hole (21), the abutting portion moveable abuts against two sides of the limiting hole (21) opposite with the bottom wall, so that the lug (20) moves between the open position and the closed position.

5. The air conditioner as claimed in claim 3, wherein at least one guide groove (22) is arranged on the lug (20) along a moving direction of the lug (20); at least one guide rib (204) is protruded from an inner wall of the fixing groove (202) corresponding to the guide groove (22), and the at least one guide rib (204) slides in the guide groove (22).

6. The air conditioner as claimed in any one of claims 3-5, wherein a fixing positioning (23) is protruded from the lug (20) toward the bottom wall of the fixing groove (202), and an elastic member is sheathed on the fixing positioning (23), the elastic member is compressively housed in the fixing groove (202), and a biasing force of the elastic member in a direction away from the bottom wall is applied to the lug (20).

7. The air conditioner as claimed in any one of claims 2-5, wherein the housing (10) is in a funnel shape, and when the lug (20) is in the open position, a notch of the water catcher (11) is communicated with a drainage port (301) on the water passage (300) of the bottom case.

8. The air conditioner as claimed in claim 7, wherein the housing (10) is provided with a limiting structure, and the limiting structure limits relative movement of the housing (10) and the water passage (300) of the bottom case when the lug (20) is in the open position.

9. The air conditioner as claimed in claim 8, wherein the limiting structure is a concave structure arranged on a slot wall (13) of the water catcher (11), and when the lug (20) is in the open position, a water pipe where the drainage port (301) is located in the concave structure, and the concave structure restricts the drainage port (301) from moving along a dismantling direction of the water passage (300) of the bottom case; when the lug (20) is in the closed position, the water pipe slidingly exits the slot wall (13) along an outer edge of the concave structure.

Patentansprüche

1. Klimaanlage, umfassend:

eine Basis (200), wobei eine Luftkanalkomponente an der Basis (200) bereitgestellt ist, wobei die Luftkanalkomponente einen unteren Behälter mit einem Wasserdurchlass (300) umfasst;
eine Wasseraufnahmestruktur, die an der Basis (200) bereitgestellt ist und Folgendes umfasst:

ein Gehäuse (10), das mit einem Wasserfänger (11) und einem Abflussrohr (12) bereitgestellt ist, wobei das Abflussrohr (12) mit dem Wasserfänger (11) in Kommunikation steht und sich aus dem Gehäuse (10) heraus erstreckt;
einen Verbindungsdurchlass zwischen dem Wasserfänger (11) und dem Wasserdurchlass (300);
einen Vorsprung (20), wobei der Vorsprung (20) fest an dem Gehäuse (10) montiert ist; und
eine Umschaltangleichstruktur (201, 202, 203, 204),
wobei die Klimaanlage **dadurch gekennzeichnet ist, dass** die Umschaltangleichstruktur an der Basis (200) bereitgestellt ist und der Vorsprung (20) dazu konfiguriert ist, sich an die Umschaltangleichstruktur anzugleichen, um einen Verbindungsdurchlass zwischen dem Wasserfänger (11) und dem Wasserdurchlass (300) des unteren Behälters der Luftkanalkomponente umzuschalten.

2. Klimaanlage nach Anspruch 1, wobei die Umschaltangleichstruktur mit einer offenen Position und einer geschlossenen Position bereitgestellt ist und der Vorsprung (20) zum Öffnen oder Schließen des Verbindungsdurchlasses zwischen der offenen Position und der geschlossenen Position bewegbar ist.

3. Klimaanlage nach Anspruch 2, wobei die Umschaltangleichstruktur einen Fixiersitz (201) umfasst, der Fixiersitz (201) mit einer Fixiernut (202) mit einer Öffnung an einem Ende der Fixiernut (202) bereitgestellt ist und eine untere Wand der Fixiernut (202) gegenüber der Öffnung mit einer Begrenzungsplatte

(203) bereitgestellt ist, die nach außen hervorsteht; der Vorsprung (20) bewegbar in der Fixiernut (202) montiert ist und die Begrenzungsplatte (203) definiert, dass der Vorsprung (20) zwischen der offenen Position und der geschlossenen Position bewegt wird.

4. Klimaanlage nach Anspruch 3, wobei die Begrenzungsplatte (203) mit einem angrenzenden Abschnitt bereitgestellt ist, der Vorsprung (20) mit einem Begrenzungsloch (21) bereitgestellt ist und sich der angrenzende Abschnitt in das Begrenzungsloch (21) erstreckt, der angrenzende Abschnitt bewegbar an zwei Seiten des Begrenzungslochs (21) gegenüber mit der unteren Wand angrenzt, sodass sich der Vorsprung (20) zwischen der offenen Position und der geschlossenen Position bewegt.

5. Klimaanlage nach Anspruch 3, wobei mindestens eine Führungsnut (22) an dem Vorsprung (20) entlang einer Bewegungsrichtung des Vorsprungs (20) angeordnet ist; mindestens eine Führungsrippe (204) von einer inneren Wand der Fixiernut (202) hervorstehend ist, die der Führungsnut (22) entspricht, und die mindestens eine Führungsrippe (204) in der Führungsnut (22) gleitet.

6. Klimaanlage nach einem der Ansprüche 3-5, wobei eine Fixierpositionierung (23) von dem Vorsprung (20) in Richtung der unteren Wand der Fixiernut (202) hervorstehend ist und ein elastisches Element an der Fixierpositionierung (23) ummantelt ist, das elastische Element zusammendrückend in der Fixiernut (202) untergebracht ist und eine Vorspannkraft des elastischen Elements in einer Richtung weg von der unteren Wand auf den Vorsprung (20) angewendet ist.

7. Klimaanlage nach einem der Ansprüche 2-5, wobei das Gehäuse (10) eine Trichterform aufweist und, wenn sich der Vorsprung (20) in der offenen Position befindet, eine Kerbe des Wasserfängers (11) mit einem Abflussstutzen (301) an dem Wasserdurchlass (300) des unteren Behälters kommuniziert.

8. Klimaanlage nach Anspruch 7, wobei das Gehäuse (10) mit einer Begrenzungsstruktur bereitgestellt ist und die Begrenzungsstruktur eine Relativbewegung des Gehäuses (10) und des Wasserdurchlasses (300) des unteren Behälters begrenzt, wenn sich der Vorsprung (20) in der offenen Position befindet.

9. Klimaanlage nach Anspruch 8, wobei die Begrenzungsstruktur eine konkave Struktur ist, die an einer Schlitzwand (13) des Wasserfängers (11) angeordnet ist, und, wenn sich der Vorsprung (20) in der offenen Position befindet, ein Wasserrohr, wo der Abflussstutzen (301) in der konkaven Struktur liegt, und die konkave Struktur den Abflussstutzen (301) daran hindert, sich entlang einer Zerlegungsrichtung des Wasserdurchlasses (300) des unteren Behälters zu bewegen; wenn sich der Vorsprung (20) in der geschlossenen Position befindet, das Wasserrohr gleitend entlang einer äußeren Kante der konkaven Struktur aus der Schlitzwand (13) austritt.

Revendications

1. Climatiseur, comprenant :

une base (200), un composant de conduit d'air prévu sur la base (200), ledit composant de conduit d'air comprenant un boîtier inférieur avec un passage d'eau (300) ;
une structure de réception d'eau prévue sur la base (200) et comprenant :

un logement (10) pourvu d'un récupérateur d'eau (11) et d'un tuyau de drainage (12), et tuyau de drainage (12) étant en communication avec le récupérateur d'eau (11) et s'étendant hors du logement (10) ;
un passage de liaison situé entre le récupérateur d'eau (11) et le passage d'eau (300) ;
une patte (20), la patte (20) étant montée de manière fixe sur le logement (10) ; et
une structure d'adaptation de commutateur (201, 202, 203, 204),
dans lequel le climatiseur est **caractérisé en ce que** la structure d'adaptation de commutateur est pourvue sur la base (200), et la patte (20) est configuré pour s'adapter à la structure d'adaptation de commutateur afin de commuter un passage de liaison entre le récupérateur d'eau (11) et le passage d'eau (300) du boîtier inférieur de l'élément de conduit d'air.

2. Climatiseur selon la revendication 1, dans lequel la structure d'adaptation de commutateur est pourvue d'une position ouverte et d'une position fermée, et la patte (20) est mobile entre la position ouverte et la position fermée pour ouvrir ou fermer le passage de liaison.

3. Climatiseur selon la revendication 2, dans lequel la structure d'adaptation de commutateur comprend un siège de fixation (201), le siège de fixation (201) est pourvu d'une rainure de fixation (202) avec une ouverture à une extrémité de la rainure de fixation (202), et une paroi inférieure de la rainure de fixation (202) opposée à l'ouverture est pourvue d'une plaque de limitation (203) faisant saillie vers l'extérieur ; la patte (20) est montée de manière mobile dans la

rainure de fixation (202), et la plaque de limitation (203) définit que la patte (20) est déplacée entre la position ouverte et la position fermée.

4. Climatiseur selon la revendication 3, dans lequel la plaque de limitation (203) est pourvue d'une partie de butée, la patte (20) est pourvue d'un trou de limitation (21), et la partie de butée s'étend dans le trou de limitation (21), la partie de butée mobile vient en butée contre deux côtés du trou de limitation (21) opposés à la paroi de fond, de sorte que la patte (21) se déplace entre la position ouverte et la position fermée.

5. Climatiseur selon la revendication 3, dans lequel au moins une rainure de guidage (22) est arrangée sur la patte (20) le long d'une direction de déplacement de la patte (20) ; au moins une nervure de guidage (204) dépasse d'une paroi intérieure de la rainure de fixation (202) correspondant à la rainure de guidage (22), et l'au moins une nervure de guidage (204) coulisse dans la rainure de guidage (22).

6. Climatiseur selon l'une quelconque des revendications 3 à 5, dans lequel un positionnement de fixation (23) fait saillie depuis la patte (20) vers la paroi inférieure de la rainure de fixation (202), et un élément élastique est gainé sur le positionnement de fixation (23), l'élément élastique est logé en compression dans la rainure de fixation (202), et une force de sollicitation de l'élément élastique dans une direction s'éloignant de la paroi de fond est appliquée sur la patte (20).

7. Climatiseur selon l'une quelconque des revendications 2 à 5, dans lequel le logement (10) est en forme d'entonnoir, et lorsque la patte (20) est dans la position ouverte, une encoche du récupérateur d'eau (11) est en communication avec un orifice de drainage (301) sur un passage d'eau de boîtier inférieur.

8. Climatiseur selon la revendication 7, dans lequel le boîtier (10) est pourvu d'une structure de limitation, et la structure de limitation limite le mouvement relatif du logement (10) et du passage d'eau du boîtier inférieur lorsque la patte (20) est dans la position ouverte.

9. Climatiseur selon la revendication 8, dans lequel la structure de limitation est une structure concave disposée sur une paroi de fente (13) du récupérateur d'eau (11), et lorsque la patte (20) est dans la position ouverte, une conduite d'eau où l'orifice de drainage (301) est situé dans la structure concave, et la structure concave empêche l'orifice de drainage (301) de se déplacer le long d'une direction de démontage du passage d'eau du boîtier inférieur ; lorsque la patte (20) est dans la position fermée, la conduite d'eau sort de manière coulissante de la paroi de fente (13) le long d'un bord extérieur de la structure concave.

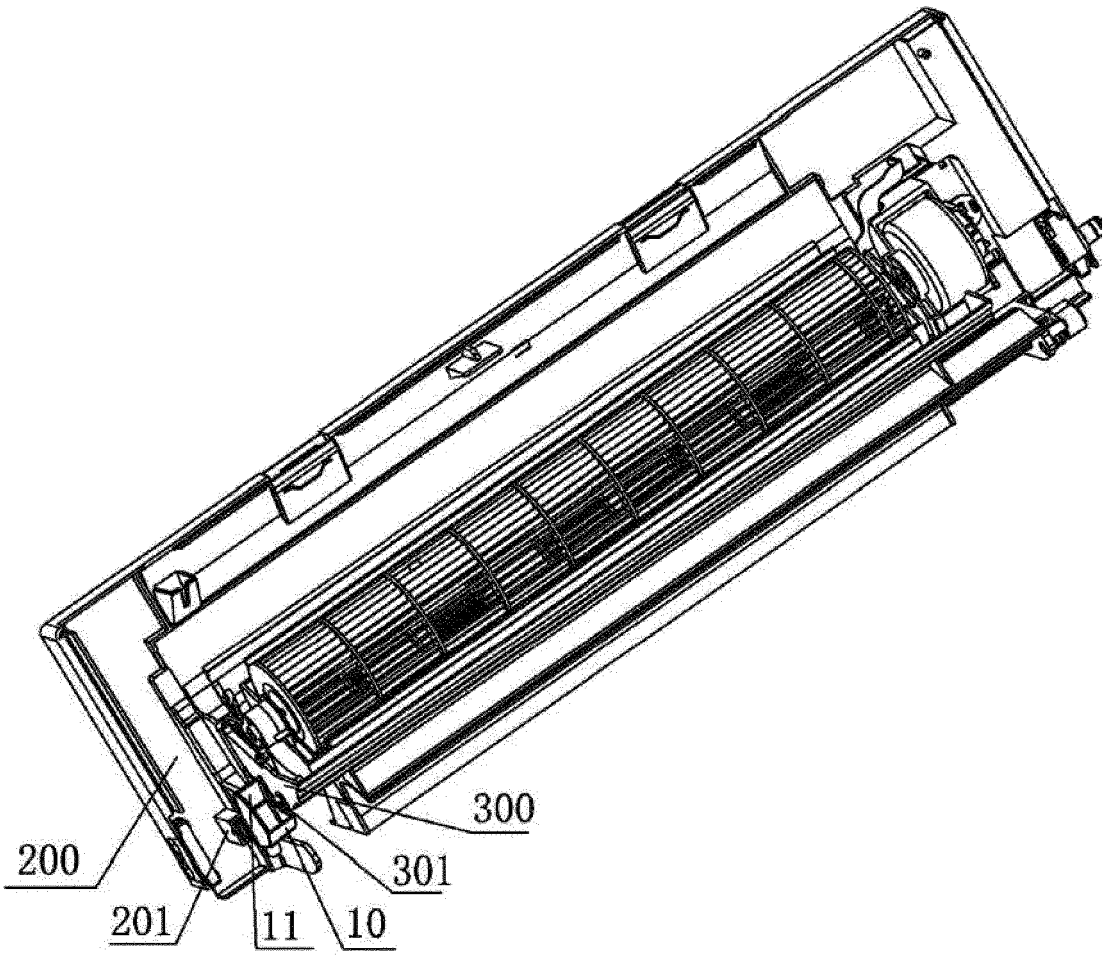

Fig.1

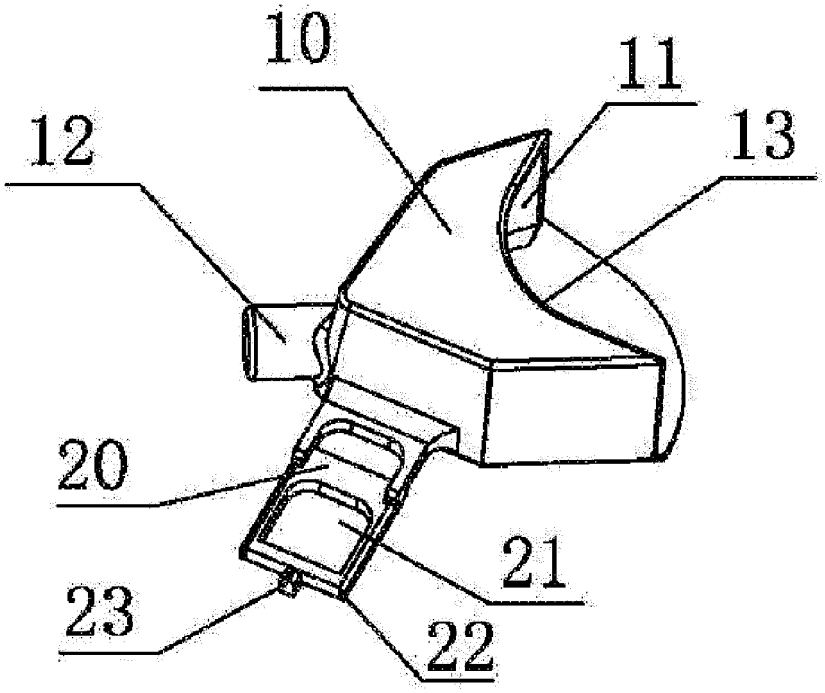

Fig.2

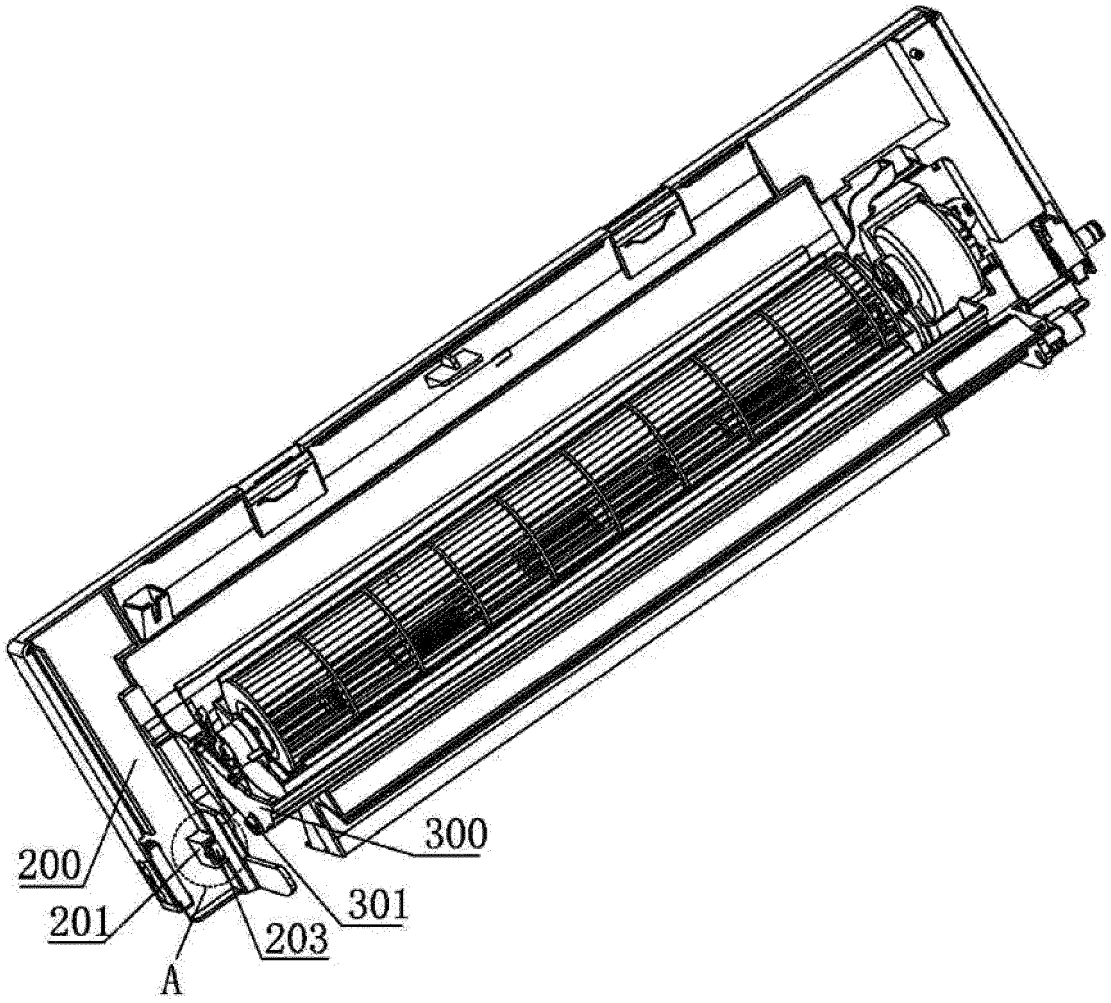

Fig.3

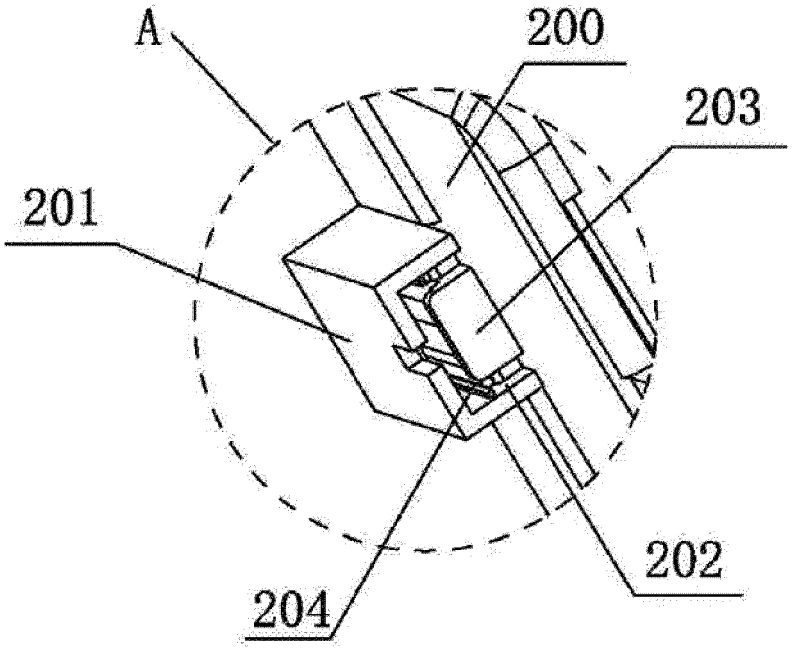

Fig.4

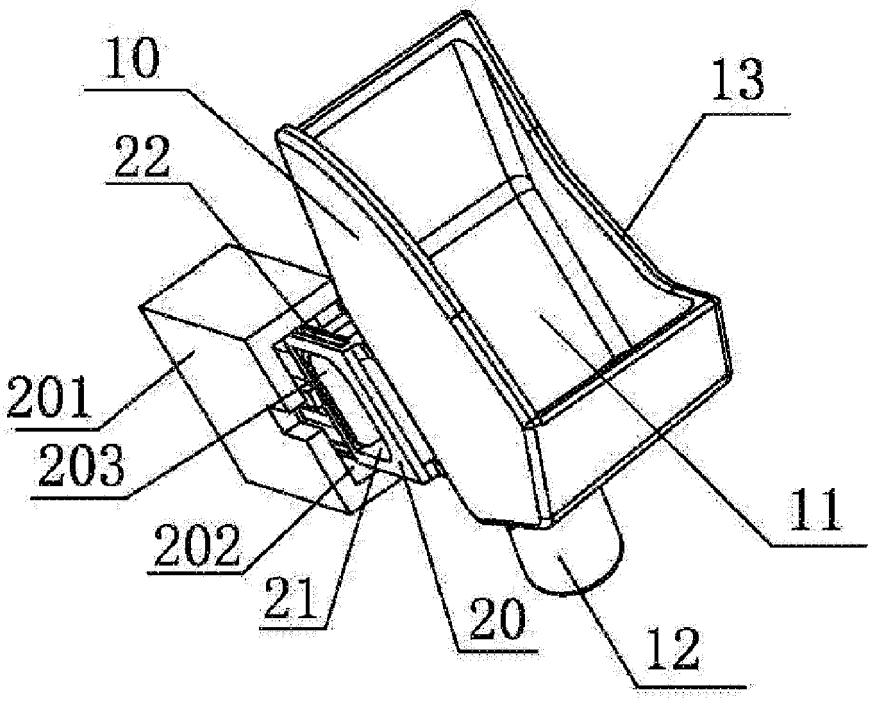

Fig.5

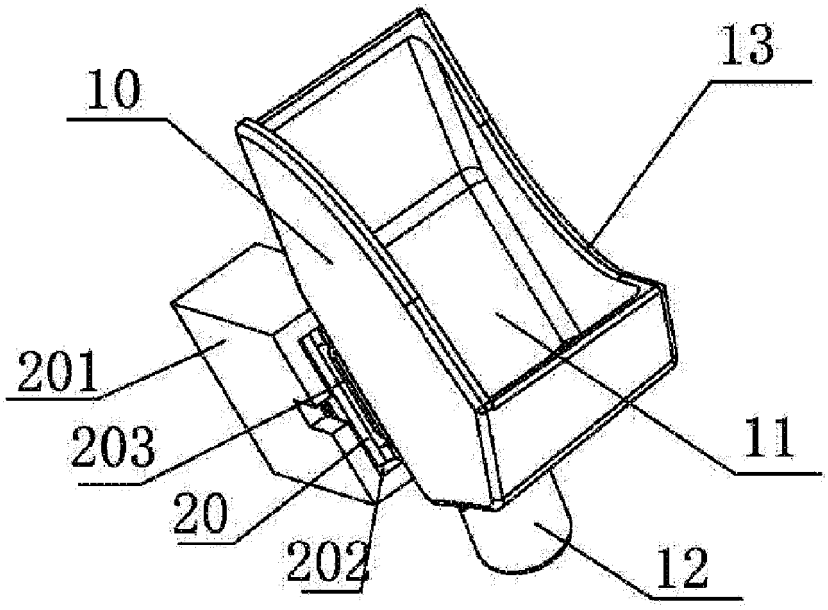

Fig.6

REFERENCES CITED IN THE DESCRIPTION

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Patent documents cited in the description

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