

LAMINATED STRUCTURE AND CABINET

FIELD

[001] The disclosure relates to the field of cabinets, in particular to a laminated structure and
5 a cabinet.

BACKGROUND

[002] Existing wooden cabinets are likely to become damp and moldy and even get damaged
by steam generated when common cooking apparatuses, for example, an electric kettle for
10 boiling water and a rice cooker for stewing rice, are used. In consequence, their service life
is detrimentally affected.

SUMMARY

[003] The disclosure aims at solving at least one of problems in the prior art or related art.

15 **[004]** In view of this, an embodiment of a first aspect of the disclosure provides a laminated
structure.

[005] An embodiment of a second aspect of the disclosure provides a cabinet.

[006] In order to achieve the objective described above, the embodiment of the first aspect of
the disclosure provides a laminated structure. The laminated structure includes: a board
20 shell, where the board shell is hollow inside and includes an air inlet board and an air outlet
board that are located on different side walls, the air inlet board is provided with an air inlet,
and the air outlet board is provided with an air outlet; and an air duct structure provided in
the board shell, where a fan is arranged in the air duct structure; and the fan operates to
cause air flowing into the air duct structure through the air inlet to be exhausted outwards
25 through the air outlet.

[007] The laminated structure provided by the embodiment of the disclosure mainly includes
the board shell and the air duct structure provided in the board shell. Under the action of the
built-in fan, steam or oily fume possibly generated at a side of the air inlet board is sucked

into the board shell, and influence of moisture or greasy dirt on boards of a cabinet located above is reduced, and use by a user is facilitated to a greater extent. In an embodiment, the board shell is a main structure of the laminated structure, and the interior of the board shell accommodates the air duct structure. Two side walls of the board shell are provided with an air inlet board and an air outlet board. By arranging the air inlet on the air inlet board and the air outlet on the air outlet board, the fan in the air duct structure can suck in air at a side of the air inlet board during operation. After flowing through the entire air duct structure of the laminated structure, air may be exhausted outwards through the air outlet. By enhancing a wind strength, a movement route of steam or greasy dirt can be changed, influence on the cabinet located above can be greatly reduced, and a service life can be prolonged.

[008] The laminated structure is a constituent part of the cabinet and may be directly arranged on a side wall of the cabinet or at a bottom of the top cabinet.

[009] In the embodiment described above, the laminated structure further includes a filtration assembly arranged at the air inlet, where the filtration assembly is configured to filter air entering the air duct structure.

[0010] In this embodiment, an adsorption effect of steam or greasy dirt can be improved by arranging the filtration assembly at the air inlet. That is, before flowing into the air duct structure, air may be filtered through the filtration assembly, and the phenomenon that the greasy dirt or steam flows into the air duct structure and an inner wall of the air duct structure is polluted is avoided, and a possibility of producing bacteria is reduced.

[0011] The filtration assembly may be arranged at an outer side of the air inlet, and may further be arranged at an inner side of the air inlet.

[0012] In the embodiment described above, the filtration assembly includes a support member arranged at the air inlet, and connected to an edge of the air inlet; and a filtration material structure arranged at an inner side of the support member.

[0013] In this embodiment, the filtration assembly mainly includes the support member and the filtration material structure. The support member is mainly configured to support and fix the filtration material structure to prevent same from moving, and the filtration material structure is a main structure for filtration. Under the action of the filtration material

structure, substances such as fine particles and greasy dirt in air can be adsorbed, and influence on the inner wall of the internal air duct structure and the operation of the fan is reduced, and normal operation of the entire laminated structure is guaranteed.

5 **[0014]** Further, the support member may be in a form of a net as long as the support member may support air intake, and air can smoothly reach the filtration material structure and flow into the air duct structure after being filtered.

10 **[0015]** In the embodiment described above, the laminated structure further includes an electric control structure arranged in the board shell, where the electric control structure is electrically connected to the fan, and the electric control structure is configured to control operation of the fan.

15 **[0016]** In this embodiment, the operation of the fan may be controlled by arranging the electric control structure in the board shell. It can be understood that the fan of the laminated structure is not turned on all the time, but controlled according to actual use requirements. By arranging the electric control structure, the fan may be controlled to operate manually or automatically after the steam or greasy dirt is generated, and the steam or greasy dirt flowing to a bottom of the cabinet located avoided is reduced.

20 **[0017]** In the embodiment described above, the electric control structure includes: a circuit board arranged in the board shell, where a plurality of function buttons are arranged on the circuit board, and the plurality of function buttons protrude from the air outlet board.

25 **[0018]** In this embodiment, the electric control structure mainly includes the circuit board arranged in the board shell, and operation of the entire laminated structure may be controlled by arranging the plurality of function buttons protruding from the air outlet board on the circuit board. One or more fans may be controlled to be turned on or off independently, a rotation speed and an air outlet direction of the fans may be adjusted, and even energization of an additional sensing component may be further controlled.

30 **[0019]** In the embodiment described above, the fan is a centrifugal fan, and there are a plurality of fans arranged at intervals in a length direction of the board shell.

5 [0020] In this embodiment, by selecting the centrifugal fan as the fan and arranging the plurality of centrifugal fans at intervals in the length direction, a wind speed can be increased based on features of the centrifugal fans on the basis of guaranteeing an air intake volume. In addition, under the action of the centrifugal fans, blades of the centrifugal fans are less likely to be contaminated with the greasy dirt and the steam.

[0021] In a further embodiment, alternatively, a cross-flow fan may be selected, and an air outlet speed may be distributed more uniformly.

10 [0022] In the embodiment described above, a size in a length direction of a projection of the plurality of fans on the air outlet board is greater than a size in a length direction of the air outlet, and the air duct structure includes: a deflector board arranged in a space between the fan and the air outlet, where an extension direction of the deflector board is not parallel to a direction perpendicular to the air outlet board.

15 [0023] In this embodiment, an internal space of the board shell can be fully utilized on the basis of selecting the plurality of centrifugal fans. Under influence of spaces of the function buttons and the electric control structure, the size of the air outlet is smaller than a size of the centrifugal fans, that is, the size in the length direction of the projection of the plurality of fans on the air outlet board is greater than the size in the length direction of the air outlet. In this case, the deflector board is arranged in the space between the fans and the air outlet, and air exhausted by the centrifugal fans is guided to the air outlet under the action of the
20 deflector board and then exhausted.

[0024] It should be emphasized that in this solution, the extension direction of the deflector board is not parallel to the air outlet direction or a direction perpendicular to the air outlet board.

25 [0025] In the embodiment described above, the laminated structure further includes a movable board movably connected to the air inlet board; and a drive member in transmission connection to the movable board, where the drive member is configured to drive the movable board to move, to adjust a size of a gap between the movable board and the air inlet board.

[0026] In this embodiment, by arranging the movable board that may move at the air inlet board, the size of the gap between the movable board and the air inlet board can be adjusted under the action of the drive member. When the movable board extends outwards, the gap is formed between the movable board and the air inlet board as a result, a number of air inlet surfaces may increase, that is, a position of air inlet is changed from a previous position of the air inlet surface to four directions around the air inlet surface. In a further embodiment, when the air inlet surface is a front side surface, air inlet is in up, down, left and right directions after the movable board extends out. In addition, an area of the air inlet surface can be reduced, and the air speed can be effectively improved. In other words, under the action of the movable board, a negative pressure generated by the fan can be expanded outwards, steam and oily fume generated by small household appliances can be adsorbed to a greater extent, and an effect of steam adsorption can be improved.

[0027] In the embodiment described above, the drive member includes: a sliding rail and a sliding block, where one of the sliding rail and the sliding block is arranged in the board shell and fixedly connected to the board shell, and the other one is arranged on the movable board; and an extension direction of the sliding rail is perpendicular to a plane where the air inlet is located.

[0028] In this embodiment, the drive member mainly includes the sliding rail and the sliding block. The movable board may be driven to translate in a direction of the sliding rail under the action of the sliding rail and the sliding block. The extension direction of the sliding rail is perpendicular to the plane where the air inlet is located, that is, the movable board translates in the direction perpendicular to the plane where the air inlet is located, and multi-angle high-speed air intake is implemented.

[0029] In the embodiment described above, the board shell is in a shape of a cuboid, and the board shell includes two first side walls arranged at two sides in the length direction, two second side walls arranged at two sides in a width direction, and two third side walls arranged at two sides in a height direction; and the air outlet board serves as one of the second side walls, and the air inlet board serves as one of the third side walls.

[0030] In this embodiment, the board shell is limited to the shape of the cuboid, and more matches a board of an existing cabinet in shape. The board shell includes the first side wall,

the second side wall and the third side wall. The first side wall is arranged in the length direction, the second side wall is arranged in the width direction and the third side wall is arranged in the height direction. The air outlet board is arranged on one side wall in the width direction, and the air inlet board is arranged on one side wall in the height direction, and the steam and greasy dirt that are generated blow can be filtered and adsorbed, and then exhausted to a front side or a back side through the second side wall.

[0031] The embodiment of the second aspect of the disclosure provides a cabinet. The cabinet includes a cabinet body; and any laminated structure according to the embodiment of the first aspect arranged on the cabinet body.

[0032] The cabinet provided by the disclosure mainly includes the cabinet body and the laminated structure. The cabinet body may provide accommodation spaces for tableware, seasoning, etc. By arranging the laminated structure on the cabinet body, pollution on a top board of steam generated by an apparatus such as an electric kettle and a rice cooker that is located on the cabinet can be reduced.

[0033] In addition, since the cabinet includes any laminated structure according to the embodiment of the first aspect, the cabinet has the beneficial effects of any laminated structure described above, which will not be described in detail herein.

[0034] Additional aspects and advantages of the disclosure will become apparent in the following description, or can be learned by implementing the disclosure.

BRIEF DESCRIPTION OF THE DRAWINGS

[0035] Fig. 1 shows a schematic structural diagram of a laminated structure according to an embodiment of the disclosure;

[0036] Fig. 2 shows a schematic diagram of an exploded structure of a laminated structure according to an embodiment of the disclosure;

[0037] Fig. 3 shows a schematic structural diagram of a laminated structure according to an embodiment of the disclosure;

[0038] Fig. 4 shows a schematic structural diagram of a laminated structure according to an embodiment of the disclosure;

[0039] Fig. 5 shows a schematic structural diagram of a laminated structure according to an embodiment of the disclosure;

5 **[0040]** Fig. 6 shows a schematic structural diagram of a laminated structure according to an embodiment of the disclosure; and

[0041] Fig. 7 shows a schematic structural diagram of a cabinet according to an embodiment of the disclosure.

10 **[0042]** A corresponding relation between reference numerals and names of components in Figs. 1 and 7 is as follows:

[0043] 100: laminated structure; 102: board shell; 1022: air inlet board; 1024: air outlet board; 104: air duct structure; 1042: fan; 106: filtration assembly; 1062: support member; 1064: filtration material structure; 108: electric control structure; 1082: circuit board; 1084: function button; 110: deflector board; 112: movable board; 114: drive member; 200: cabinet; 15 and 202: cabinet body.

DETAILED DESCRIPTION OF THE DISCLOSURE

20 **[0044]** In order to understand the above objectives, features and advantages of an embodiment of the disclosure more clearly, the embodiment of the disclosure will be further described in detail below with reference to accompanying drawings and in conjunction with embodiments. It should be noted that embodiments in the disclosure and features in the embodiments can be combined with one another if there is no conflict.

25 **[0045]** In the following description, many details are set forth for the convenience of full understanding of the disclosure. However, the embodiment of the disclosure can further be implemented in other manners different from those described herein, and hence, the protection scope of the disclosure is not limited to the embodiments disclosed below.

[0046] Some embodiments of the disclosure will be described below with reference to Figs. 1-7.

[0047] As shown in Figs. 1 and 2, a laminated structure 100 according to this embodiment mainly includes a board shell 102 and an air duct structure 104 provided in the board shell 102. Under the action of a built-in fan 1042, steam or oily fume possibly generated at a side of an air inlet board 1022 can be sucked into the board shell 102, and influence of moisture or greasy dirt on boards of a cabinet 200 located above is reduced, and use by a user is facilitated to a greater extent. In an embodiment, the board shell 102 is a main structure of the laminated structure 100, and an interior of the board shell accommodates the air duct structure 104. Two side walls of the board shell 102 are provided with the air inlet board 1022 and an air outlet board 1024. By arranging an air inlet on the air inlet board 1022 and an air outlet on the air outlet board 1024, the fan 1042 in the air duct structure 104 can suck in air at a side of the air inlet board 1022 during operation. After flowing through the entire air duct structure 104 of the laminated structure 100, air may be exhausted outwards through the air outlet. By enhancing a wind strength, a movement route of steam or greasy dirt can be changed, influence on the cabinet 200 located above can be greatly reduced, and a service life can be prolonged.

[0048] The laminated structure 100 is a constituent part of the cabinet 200 and may be directly arranged on a side wall of the cabinet 200 or at a bottom of the top cabinet.

[0049] In an embodiment, by selecting the centrifugal fan as the fan 1042 and arranging a plurality of centrifugal fans at intervals in a length direction, a wind speed can be increased based on features of the centrifugal fans on the basis of guaranteeing an air intake volume. In addition, under the action of the centrifugal fans, blades of the centrifugal fans are not easy to contaminate with the greasy dirt and the steam.

[0050] Further, on the basis of selecting the plurality of centrifugal fans, an internal space of the board shell 102 can be fully utilized. Under influence of spaces of function buttons 1084 and an electric control structure 108, a size of the air outlet is smaller than a size of the centrifugal fans 1042, that is, the size in a length direction of a projection of the plurality of fans 1042 on the air outlet board 1024 is greater than the size in the length direction of the air outlet. In this case, as shown in Fig. 5, a deflector board 110 is arranged in a space between the fans 1042 and the air outlet, and air exhausted by the centrifugal fans 1042 is guided to the air outlet under the action of the deflector board 110, to be exhausted.

[0051] It should be emphasized that in this solution, an extension direction of the deflector board 110 is not parallel to an air outlet direction or a direction perpendicular to the air outlet board 1024.

[0052] In another embodiment, a cross-flow fan may be selected, and an air outlet speed may be distributed more uniformly.

[0053] When the movable board is not arranged, an air flow direction is shown in Fig. 3.

[0054] As shown in Figs. 1 and 2, a laminated structure 100 according to this embodiment mainly includes a board shell 102 and an air duct structure 104 provided in the board shell 102. Under the action of a built-in fan 1042, steam or oily fume possibly generated at a side of an air inlet board 1022 can be sucked into the board shell 102, and influence of moisture or greasy dirt on boards of a cabinet 200 located above is reduced, and use by a user is facilitated to a greater extent. In an embodiment, the board shell 102 is a main structure of the laminated structure 100, and an interior of the board shell accommodates the air duct structure 104. Two side walls of the board shell 102 are provided with the air inlet board 1022 and an air outlet board 1024. By arranging an air inlet on the air inlet board 1022 and an air outlet on the air outlet board 1024, the fan 1042 in the air duct structure 104 can suck in air at a side of the air inlet board 1022 during operation. After flowing through the entire air duct structure 104 of the laminated structure 100, air may be exhausted outwards through the air outlet. By enhancing a wind strength, a movement route of steam or greasy dirt can be changed, influence on the cabinet 200 located above can be greatly reduced, and a service life can be prolonged.

[0055] The laminated structure 100 is a constituent part of the cabinet 200 and may be directly arranged on a side wall of the cabinet 200 or at a bottom of the top cabinet.

[0056] By arranging a filtration assembly 106 at the air inlet, an adsorption effect of steam or greasy dirt can be improved. That is, before flowing into the air duct structure 104, air may be filtered through the filtration assembly 106, and the phenomenon that the greasy dirt or steam flows into the air duct structure 104, and an inner wall of the air duct structure 104 is polluted is avoided, and a possibility of producing bacteria is reduced.

[0057] The filtration assembly 106 may be arranged at an outer side of the air inlet, and may further be arranged at an inner side of the air inlet.

[0058] The filtration assembly 106 mainly includes a support member 1062 and a filtration material structure 1064. The support member 1062 is mainly configured to support and fix the filtration material structure 1064 to prevent same from moving, and the filtration material structure 1064 is a main structure for filtration. Under the action of the filtration material structure 1064, substances such as fine particles and greasy dirt in air can be adsorbed, and influence on the inner wall of the internal air duct structure 104 and the operation of the fan 1042 is reduced, and normal operation of the entire laminated structure 100 is guaranteed.

[0059] Further, the support member 1062 may be in a form of a net as long as the support member may support air intake, and the air can smoothly reach the filtration material structure 1064 and flow into the air duct structure 104 after being filtered.

[0060] As shown in Fig. 2, a laminated structure 100 according to this embodiment mainly includes a board shell 102 and an air duct structure 104 provided in the board shell 102. Under the action of a built-in fan 1042, steam or oily fume possibly generated at a side of an air inlet board 1022 can be sucked into the board shell 102, and influence of moisture or greasy dirt on boards of a cabinet 200 located above is reduced, and use by a user is facilitated to a greater extent. In an embodiment, the board shell 102 is a main structure of the laminated structure 100, and an interior of the board shell accommodates the air duct structure 104. Two side walls of the board shell 102 are provided with the air inlet board 1022 and an air outlet board 1024. By arranging an air inlet on the air inlet board 1022 and an air outlet on the air outlet board 1024, the fan 1042 in the air duct structure 104 can suck in air at a side of the air inlet board 1022 during operation. After flowing through the entire air duct structure 104 of the laminated structure 100, air may be exhausted outwards through the air outlet. By enhancing a wind strength, a movement route of steam or greasy dirt can be changed, influence on the cabinet 200 located above can be greatly reduced, and a service life can be prolonged.

[0061] The laminated structure 100 is a constituent part of the cabinet 200 and may be directly arranged on a side wall of the cabinet 200 or at a bottom of the top cabinet.

[0062] By arranging a movable board 112 that may move is arranged at the air inlet board 1022, a size of a gap between the movable board 112 and the air inlet board 1022 can be adjusted under the action of a drive member 114. When the movable board 112 extends outwards, the gap is formed between the movable board and the air inlet board 1022 as a result, a number of air inlet surfaces may increases, that is, a position of air inlet is changed from a previous position of the air inlet surface to four directions around the air inlet surface. In a further embodiment, when the air inlet surface is a front side surface, air inlet is in up, down, left and right directions after the movable board 112 extends out. In addition, an area of the air inlet surface can be reduced, and an air speed can be effectively improved. In other words, under the action of the movable board 112, a negative pressure generated by the fan 1042 can be expanded outwards, steam and oily fume generated by small household appliances can be adsorbed to a greater extent, and an effect of steam adsorption can be improved.

[0063] When the movable board 112 is not added, an air flow direction is shown in Figs. 4 and 6.

[0064] A movement direction of the movable board 112 can be a translation direction or a rotation direction.

[0065] In an embodiment, the drive member 114 mainly includes a sliding rail and a sliding block. The movable board 112 may be driven to translate in a direction of the sliding rail under the action of the sliding rail and the sliding block. An extension direction of the sliding rail is perpendicular to a plane where the air inlet is located, that is, the movable board 112 translates in the direction perpendicular to the plane where the air inlet is located, and multi-angle high-speed air intake is implemented.

[0066] Further, operation of the fan 1042 may be controlled by arranging an electric control structure 108 in the board shell. It can be understood that the fan 1042 of the laminated structure 100 is controlled according to actual use requirements, instead of being turned on all the time. By arranging the electric control structure 108, the fan 1042 may be controlled to operate manually or automatically after the steam or greasy dirt is generated, and the steam or greasy dirt flowing to a bottom of the cabinet 200 located avoided is reduced.

[0067] In an embodiment, a steam sensor and an oily fume sensor may be arranged. The steam sensor and the oily fume sensor are placed on an outer side wall of the laminated structure 100, and electrically connected to a circuit board 1082, and the operation of the fan 1042 can be controlled according to sensing parameters obtained.

5 **[0068]** Further, the electric control structure 108 may be electrically connected to the drive member 114, to control movement of the movable board 112.

[0069] Based on any embodiment described above, the board shell 102 is limited to a shape of a cuboid, and matches a board of an existing cabinet 200 in shape better. In an embodiment, the board shell 102 includes a first side wall, a second side wall and a third side wall. The
10 first side wall is arranged in a length direction, the second side wall is arranged in a width direction and the third side wall is arranged in a height direction. The air outlet board 1024 is arranged on one side wall in the width direction, and the air inlet board 1022 is arranged on one side wall in the height direction, and the steam and greasy dirt that are generated blow can be filtered and adsorbed, and then exhausted to a front side or a back side through the
15 second side wall.

[0070] As shown in Fig. 7, a cabinet 200 provided by the embodiment mainly includes a cabinet body 202 and a laminated structure 100. The cabinet body 202 may provide accommodation spaces for tableware, seasoning, etc. By arranging the laminated structure on the cabinet body, pollution on a top board of steam generated by an apparatus such as an
20 electric kettle and a rice cooker that is located on the cabinet can be reduced.

[0071] In addition, since the cabinet 200 includes the laminated structure 100 according to any embodiment, the cabinet has the beneficial effects of any laminated structure 100 described above, which will not be described in detail herein.

[0072] According to the laminated structure and the cabinet provided by the disclosure, under
25 the action of a built-in fan, steam or oily fume possibly generated at a side of an air inlet board can be sucked into the board shell, and influence of moisture or greasy dirt on the board of a cabinet located above is reduced, and use by a user is facilitated to a greater extent.

[0073] In the disclosure, the terms such as “first”, “second” and “third” are merely used for descriptive purposes and cannot be understood as indicating or implying relative importance, and the term “plurality” refers to two or more, unless otherwise explicitly defined. The terms such as “mount”, “connected”, “connection” and “fix” should be understood broadly. For example, “connection” can be a fixed connection, a detachable connection or an integral connection; and “connected” can denote direct connection or indirect connection through an intermediate medium. For those of ordinary skill in the art, specific meanings of the above terms in the disclosure can be understood according to specific circumstances.

[0074] In the description of the disclosure, it needs to be understood that orientation or positional relations indicated by terms “up”, “down”, “left”, “right”, “front”, “rear”, etc. are based on orientation or positional relations shown in accompanying drawings, are merely for facilitating description of the disclosure and simplifying the description, rather than indicating or implying that a device or unit referred to shall have a particular orientation or be constructed and operated in a particular direction, and cannot be constructed as limitation to the disclosure as a result.

[0075] In the specification of the description, the description of the terms such as “an embodiment”, “some embodiments” and “specific embodiment” means that specific features, structures, materials, or characteristics described in combination with the embodiment or instance are included in at least one embodiment or instance of the disclosure. In the description, schematic expressions of the above terms do not necessarily refer to the same embodiment or instance. Further, the particular features, structures, materials or characteristics described can be combined in any one or more embodiments or instances in a suitable mode.

[0076] The embodiments described above are merely some embodiments of the disclosure and are not intended to limit the disclosure, and for those skilled in the art, various modifications and changes can be made to the disclosure. Any modification, equivalent substitution, improvement, etc. made within the spirit and principles of the disclosure shall fall within the protection scope of the disclosure.

WHAT IS CLAIMED IS:

1. A laminated structure, comprising:

a board shell, wherein the board shell is hollow inside and includes an air inlet board and an air outlet board that are located on different side walls, the air inlet board is provided with an air inlet, and the air outlet board is provided with an air outlet; and

an air duct structure provided in the board shell, wherein a fan is arranged in the air duct structure; and

the fan operates to cause air flowing into the air duct structure through the air inlet to be exhausted outwards through the air outlet.

2. The laminated structure according to claim 1, further comprising:

a filtration assembly arranged at the air inlet, wherein the filtration assembly is configured to filter air entering the air duct structure.

3. The laminated structure according to claim 2, wherein the filtration assembly comprises:

a support member arranged at the air inlet and connected to an edge of the air inlet; and

a filtration material structure arranged at an inner side of the support member.

4. The laminated structure according to claim 1, further comprising:

an electric control structure arranged in the board shell, wherein the electric control structure is electrically connected to the fan, and the electric control structure is configured to control operation of the fan.

5. The laminated structure according to claim 4, wherein the electric control structure comprises:

a circuit board arranged in the board shell, wherein a plurality of function buttons are arranged on the circuit board, and the plurality of function buttons protrude from the air outlet board.

6. The laminated structure according to claim 1, wherein the fan is a centrifugal fan, and there are a plurality of fans arranged at intervals in a length direction of the board shell.

7. The laminated structure according to claim 6, wherein a size in a length direction of a projection of the plurality of fans on the air outlet board is greater than a size in a length direction of the air outlet, and the air duct structure comprises:

a deflector board arranged in a space between the fan and the air outlet, wherein an extension direction of the deflector board is not parallel to a direction perpendicular to the air outlet board.

8. The laminated structure according to claim 1, further comprising:

a movable board movably connected to the air inlet board; and

a drive member in transmission connection to the movable board, wherein the drive member is configured to drive the movable board to move, to adjust a size of a gap between the movable board and the air inlet board.

9. The laminated structure according to claim 8, wherein the drive member comprises:

a sliding rail and a sliding block, wherein one of the sliding rail and the sliding block is arranged in the board shell and fixedly connected to the board shell, and the other one is arranged on the movable board;

wherein an extension direction of the sliding rail is perpendicular to a plane where the air inlet is located.

10. The laminated structure according to any one of claims 1 to 7, wherein the board shell is in a shape of a cuboid, and the board shell comprises two first side walls arranged

at two sides in the length direction, two second side walls arranged at two sides in a width direction, and two third side walls arranged at two sides in a height direction; and

the air outlet board serves as one of the second side walls, and the air inlet board serves as one of the third side walls.

11. A cabinet, comprising:

a cabinet body; and

the laminated structure according to any one of claims 1 to 10 arranged on the cabinet body.