



[12] Patent application for invention

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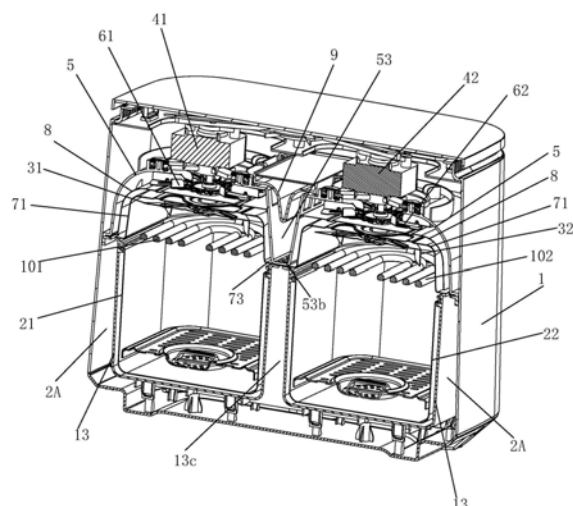
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[71] Applicant	Guo Xin	
Address	No. 3 Haiwei Avenue, Xigongye District, Guanhaiwei Town, Cixi City, Zhejiang Province 315315	
[72] Inventors	Zhang Xiyang, Rao Li, Niu Junying, Guo Xin	
[74] Patent agency	Ningbo Chengyuan Patent Agency Co., Ltd. 33102	
Agent	Deng Qingling	
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[54] Title of invention

Air Fryer

[57] Abstract

The invention relates to an air fryer comprising a main body (1) internally forming a cooking chamber, a pot body capable of entering and exiting the cooking chamber, and an electric heating device arranged inside the main body (1) and located above the cooking chamber, characterized in that: the pot body comprises a first pot body (21) and a second pot body (22); the cooking chamber of the main body (1) is provided with an integrated furnace chamber inner pan (13), on which a first accommodating chamber (13a) and a second accommodating chamber (13b) capable of respectively accommodating the first pot body (21) and the second pot body (22) are formed. The first pot body (21) is arranged in the first accommodating chamber (13a), and the second pot body (22) is arranged in the second accommodating chamber (13b). Compared with the prior art, the advantages of the invention include: by arranging the first pot body and second pot body independently, two cooking operations can be performed simultaneously, and the integrated furnace chamber inner pan structure saves material costs and improves assembly efficiency.



1. An air fryer, comprising a main body (1) internally forming a cooking chamber, a pot body capable of entering and exiting the cooking chamber, and an electric heating device arranged inside the main body (1) and located above the cooking chamber, characterized in that: the pot body comprises a first pot body (21) and a second pot body (22); the cooking chamber of the main body (1) is provided with an integrated furnace chamber inner pan (13), on which a first accommodating chamber (13a) and a second accommodating chamber (13b) capable of respectively accommodating the first pot body (21) and the second pot body (22) are formed, the first pot body (21) is arranged in the first accommodating chamber (13a), and the second pot body (22) is arranged in the second accommodating chamber (13b).

2. The air fryer according to claim 1, characterized in that: a cold air duct (13c) located between the first accommodating chamber (13a) and the second accommodating chamber (13b) is formed on the integrated furnace chamber inner pan (13), a cold air channel (2A) is formed between the integrated furnace chamber inner pan (13) and the inner wall of the main body, and the cold air duct (13c) communicates with the cold air channel (2A).

3. The air fryer according to claim 2, characterized in that: a cold air circulation hole (13d) communicating with the cold air duct (13c) is provided on the integrated furnace chamber inner pan (13) between the first accommodating chamber (13a) and the second accommodating chamber (13b).

4. The air fryer according to claim 2, characterized in that the main body is further provided with: a first hot air fan (31) arranged above the electric heating device and opposite to the position of the first pot body (21); a second hot air fan (32) arranged above the electric heating device and opposite to the position of the second pot body (22); a first motor (41) connected to the first hot air fan (31) and capable of driving the first hot air fan to rotate; a second motor (42) connected to the second hot air fan (32) and capable of driving the second hot air fan to rotate; a motor frame (5) capable of simultaneously mounting the first motor (41) and the second motor (42), wherein a first through-hole (51) is provided at a part of the motor frame (5) corresponding to the position of the first hot air fan (31), and a second through-hole (52) is provided at a part of the motor frame (5) corresponding to the position of the second hot air fan (32); the output shaft of the first motor (41) passes through the first through-hole (51) and is connected to the first hot air fan (31), and the output shaft of the second motor (42) passes through the second through-hole (52) and is connected

to the second hot air fan (32); a cold air duct groove (53) recessed downward in a U-shape or V-shape is formed in the middle of the motor frame (5), a cold air penetration hole (53a) is provided on the side wall of the cold air duct groove (53), a cold air outlet (53b) is provided on the bottom of the cold air duct groove (53), and the cold air outlet (53b) communicates with the cold air duct (13c) on the integrated furnace chamber inner pan (13).

5. The air fryer according to claim 4, characterized in that: a first cold air fan (61) is arranged at a position on the lower part of the motor frame (5) corresponding to the first through-hole, and the first cold air fan (61) is also connected to the output shaft of the first motor (41); a second cold air fan (62) is arranged at a position on the lower part of the motor frame (5) corresponding to the second through-hole (52), and the second cold air fan (62) is also connected to the output shaft of the second motor (42); the cold air penetration hole (53a) on one side of the cold air duct groove (53) is arranged at a position opposite to the first cold air fan (61), and the cold air penetration hole (53a) on the other side of the cold air duct groove (53) is arranged at a position opposite to the second cold air fan (62).

6. The air fryer according to claim 5, characterized in that: the first cold air fan (61) is located above the first hot air fan (31), and the first hot air fan (31) and the first cold air fan (61) are connected in parallel on the output shaft of the first motor (41), a first reflector plate (71) is arranged between the first hot air fan (31) and the first cold air fan (61); the second cold air fan (62) is located above the second hot air fan (32), the second hot air fan (32) and the second cold air fan (62) are connected in parallel on the output shaft of the second motor (42), a second reflector plate (72) is arranged between the second hot air fan (32) and the second cold air fan (62); the first reflector plate (71) and the second reflector plate (72) are connected to each other by a connecting plate (73); the first reflector plate (71), the second reflector plate (72), and the connecting plate (73) form an integrated component structure.

7. The air fryer according to claim 6, characterized in that: a ventilation port (73a) is provided on the connecting plate (73) connecting the first reflector plate (71) and the second reflector plate (72), the position of the ventilation port (73a) corresponds to the cold air outlet (53b) at the bottom of the cold air duct groove on the motor frame, and the ventilation port (73a) communicates with the cold air duct (13c) on the integrated furnace chamber inner pan (13); an integrated heat insulation plate (8) is arranged between the first reflector plate (71), the second reflector plate (72)

and the first cold air fan (61), the second cold air fan (62); an opening (81) is provided on the middle of the integrated heat insulation plate (8), the cold air duct groove (53) on the motor frame (5) passes through the opening (81) and faces the connecting plate (73); the side wall of the cold air duct groove (53) of the motor frame (5) closely fits the edge of the opening (81) in the middle of the integrated heat insulation plate (8), and the position of the cold air penetration hole (53a) on the side wall of the cold air duct groove of the motor frame is higher than the integrated heat insulation plate (8); an air guide frame (9) is arranged at a position above the motor frame (5) corresponding to the cold air duct groove, and the air guide frame (9) has a U-shaped or V-shaped air guide surface (91) capable of being inserted into the cold air duct groove.

8. The air fryer according to any of claims 1 to 7, characterized in that: the first accommodating chamber (13a) is provided with an inclined first guide surface (131) at the opening, the first pot body (21) is connected to a first pot body bracket (211), and the first pot body bracket (211) is provided with a first inclined surface (211a) capable of cooperating with the first guide surface (131) for guidance; the second accommodating chamber (13b) is provided with an inclined second guide surface (132) at the opening, the second pot body (22) is connected to a second pot body bracket (221), and the second pot body bracket (221) is provided with a second inclined surface (221a) capable of cooperating with the second guide surface (132) for guidance.

9. The air fryer according to claim 8, characterized in that: the first guide surface (131) and the second guide surface (132) form a V-shaped structure on the integrated furnace chamber inner pan (13).

10. The air fryer according to claim 8, characterized in that: a first handle (212) is connected to the outer side surface of the first pot body bracket (211), a second handle (222) is connected to the outer side surface of the second pot body bracket (221); when the first pot body bracket (211) drives the first pot body (21) into the first accommodating chamber (13a), and the second pot body bracket (221) drives the second pot body (22) into the second accommodating chamber (13b), the outer side surface of the first pot body bracket (211) and the outer side surface of the second pot body bracket (221) remain flush.

Air Fryer

Field of the Invention

[0001] The invention relates to the technical field of kitchen equipment, specifically an air fryer.

Background of the Invention

[0002] An air fryer is a novel household appliance that uses high-speed, high-temperature air circulation technology to fry food. Compared to traditional electric fryers, the food it produces can reduce fat by up to 80%. It is easy to clean in daily use, safe and cheap, making it highly favored by people.

[0003] Existing air fryers generally comprise a main body internally forming a cooking chamber, a hot air fan arranged inside the main body capable of sending high-temperature air into the cooking chamber, and a pot body arranged inside the cooking chamber for holding food. Utilizing the high-temperature hot air generated during the operation of the hot air fan, the ingredients in the pot body are heated. The hot air fully contacts the food, causing the surface of the food to lose moisture instantly and rapidly, or combined with the oil produced by the food itself, forming a crispy texture on the surface of the food, presenting a fried effect. For specific structure, refer to the invention "An Air Fryer with Simple Assembly Structure" with application number CN201710570933.8 (Publication number CN107233007A).

[0004] However, in the aforementioned air fryer, there is only one pot body in the cooking chamber, making it impossible to simultaneously cook two different types of food or perform two different types of cooking procedures.

Summary of the Invention

[0005] To solve this technical problem, the present invention provides an air fryer capable of simultaneously performing two cooking operations and can be assembled easily, in view of the current state of the art.

[0006] The technical solution adopted by the invention to solve the aforementioned technical problem is: An air fryer comprising: a main body internally forming a cooking chamber, a pot body capable of entering and exiting the cooking chamber, and an electric heating device arranged inside the main body and located above the cooking chamber, characterized in that: the pot body comprises a first pot body and a second pot body; the cooking chamber of the main body is provided with an integrated furnace chamber inner pan, on which a first accommodating chamber and a second accommodating chamber capable of respectively accommodating the first pot body

and the second pot body are formed, the first pot body is arranged in the first accommodating chamber, and the second pot body is arranged in the second accommodating chamber.

[0007] Wherein, a cold air duct located between the first accommodating chamber and the second accommodating chamber is formed on the integrated furnace chamber inner pan, a cold air channel is formed between the integrated furnace chamber inner pan and the inner wall of the main body, and the cold air duct communicates with the cold air channel.

[0008] Wherein, a cold air circulation hole communicating with the cold air duct is provided on the integrated furnace chamber inner pan between the first accommodating chamber and the second accommodating chamber.

[0009] Wherein, the main body further comprises:

[0010] a first hot air fan arranged above the electric heating device and opposite to the position of the first pot body;

[0011] a second hot air fan arranged above the electric heating device and opposite to the position of the second pot body;

[0012] a first motor connected to the first hot air fan and capable of driving the first hot air fan to rotate;

[0013] a second motor connected to the second hot air fan and capable of driving the second hot air fan to rotate;

[0014] a motor frame capable of simultaneously mounting the first motor and the second motor, wherein a first through-hole is provided at a part of the motor frame corresponding to the position of the first hot air fan, and a second through-hole is provided at a part of the motor frame corresponding to the position of the second hot air fan; the output shaft of the first motor passes through the first through-hole and is connected to the first hot air fan, and the output shaft of the second motor passes through the second through-hole and is connected to the second hot air fan;

a cold air duct groove recessed downward in a U-shape or V-shape is formed in the middle of the motor frame, a cold air penetration hole is provided on the side wall of the cold air duct groove, a cold air outlet is provided on the bottom of the cold air duct groove, and the cold air outlet communicates with the cold air duct on the integrated furnace chamber inner pan.

[0015] Wherein, a first cold air fan is arranged at a position on the lower part of the motor frame corresponding to the first through-hole, and the first cold air fan is also connected to the output shaft of the first motor; a second cold air fan is arranged at a position on the lower part of the motor frame corresponding to the second through-hole, and the second cold air fan is also connected to the output shaft of the second motor; the cold air penetration hole on one side of the cold air duct

groove is arranged at a position opposite to the first cold air fan, and the cold air penetration hole on the other side of the cold air duct groove is arranged at a position opposite to the second cold air fan.

[0016] Wherein, the first cold air fan is located above the first hot air fan, and the first hot air fan and the first cold air fan are connected in parallel on the output shaft of the first motor, a first reflector plate is arranged between the first hot air fan and the first cold air fan; the second cold air fan is located above the second hot air fan, the second hot air fan and the second cold air fan are connected in parallel on the output shaft of the second motor, a second reflector plate is arranged between the second hot air fan and the second cold air fan; the first reflector plate and the second reflector plate are connected to each other by a connecting plate; the first reflector plate, the second reflector plate, and the connecting plate form an integrated component structure.

[0017] Wherein, a ventilation port is provided on the connecting plate connecting the first reflector plate and the second reflector plate, the position of the ventilation port corresponds to the cold air outlet at the bottom of the cold air duct groove on the motor frame, and the ventilation port communicates with the cold air duct on the integrated furnace chamber inner pan; an integrated heat insulation plate is arranged between the first reflector plate, the second reflector plate and the first cold air fan, the second cold air fan; an opening is provided on the middle of the integrated heat insulation plate, the cold air duct groove on the motor frame passes through the opening and faces the connecting plate; the side wall of the cold air duct groove of the motor frame closely fits the edge of the opening in the middle of the integrated heat insulation plate, and the position of the cold air penetration hole on the side wall of the cold air duct groove of the motor frame is higher than the integrated heat insulation plate; an air guide frame is arranged at a position above the motor frame corresponding to the cold air duct groove, and the air guide frame has a U-shaped or V-shaped air guide surface capable of being inserted into the cold air duct groove.

[0018] Wherein, the first accommodating chamber is provided with an inclined first guide surface at the opening, the first pot body is connected to a first pot body bracket, and the first pot body bracket is provided with a first inclined surface capable of cooperating with the first guide surface for guidance; the second accommodating chamber is provided with an inclined second guide surface at the opening, the second pot body is connected to a second pot body bracket, and the second pot body bracket is provided with a second inclined surface capable of cooperating with the second guide surface for guidance.

[0019] Wherein, the first guide surface and the second guide surface form a V-shaped structure on the integrated furnace chamber inner pan.

[0020] Wherein, a first handle is connected to the outer side surface of the first pot body bracket, a second handle is connected to the outer side surface of the second pot body bracket; when the first

pot body bracket drives the first pot body into the first accommodating chamber, and the second pot body bracket drives the second pot body into the second accommodating chamber, the outer side surface of the first pot body bracket and the outer side surface of the second pot body bracket remain flush.

[0021] Compared with the prior art, the advantages of the invention include: by arranging the first pot body and second pot body independently, two cooking operations can be performed simultaneously, and the integrated furnace chamber inner pan structure saves material costs and improves assembly efficiency.

Brief Description of the Drawings

[0022] FIG. 1 is a structural schematic diagram of the air fryer in the embodiment of the invention.

[0023] FIG. 2 is a perspective sectional view of the air fryer in the embodiment of the invention.

[0024] FIG. 3 is a structural diagram of the integrated furnace chamber inner pan in the embodiment of the invention;

[0025] FIG. 4 is a structural diagram of the integrated furnace chamber inner pan from another perspective in the embodiment of the invention;

[0026] FIG. 5 is a structural diagram of the first pot body and the second pot body in the embodiment of the invention;

[0027] FIG. 6 is a structural diagram after assembly of the first pot body, the second pot body, and the integrated furnace chamber inner pan in the embodiment of the invention.

[0028] FIG. 7 is a perspective structural diagram of the motor frame in the embodiment of the invention.

[0029] FIG. 8 is a perspective structural diagram of the integrated heat insulation plate in the embodiment of the invention;

[0030] FIG. 9 is a perspective structural diagram of the integrated reflector plate in the embodiment of the invention;

[0031] FIG. 10 is a perspective structural diagram of the air guide frame in the embodiment of the invention.

Detailed Description of the Embodiments

[0032] The present invention will be further described in detail below in conjunction with the embodiments and drawings.

[0033] As shown in FIG. 1 and FIG. 2, the air fryer comprises a main body 1 internally forming a cooking chamber, a pot body capable of entering and exiting the cooking chamber, and an electric

heating device arranged inside the main body 1 and located above the cooking chamber. The pot body comprises a first pot body 21 and a second pot body 22, which can simultaneously enter and be placed in the cooking chamber. The electric heating device includes a first electric heating tube 101 located above the first pot body 21 and a second electric heating tube 102 located above the second pot body 22.

[0034] The cooking chamber of the main body 1 is provided with an integrated furnace chamber inner pan 13. A first accommodating chamber 13a and a second accommodating chamber 13b capable of respectively accommodating the first pot body 21 and the second pot body 22 are formed on the integrated furnace chamber inner pan 13. The first pot body 21 is arranged in the first accommodating chamber 13a, and the second pot body 22 is arranged in the second accommodating chamber 13b. With reference to FIG. 3, the integrated furnace chamber inner pan 13 can simultaneously accommodate two pot bodies, which saves material costs and improves assembly efficiency.

[0035] With reference to FIG. 2 and FIG. 4, a cold air duct 13c located between the first accommodating chamber 13a and the second accommodating chamber 13b is formed on the integrated furnace chamber inner pan 13. A cold air circulation hole 13d communicating with the cold air duct 13c is provided on the integrated furnace chamber inner pan 13 between the first accommodating chamber 13a and the second accommodating chamber 13b. A cold air channel 2A is formed between the integrated furnace chamber inner pan 13 and the inner wall of the main body. The cold air duct 13c communicates with the cold air channel 2A. The cold air duct 13c and the cold air channel 2A are provided for cooling the inner wall of the main body to avoid deformation due to excessive temperature.

[0036] With reference to FIG.3, FIG.5 and FIG.6, the first accommodating chamber 13a is provided with an inclined first guide surface 131 at the opening. The first pot body 21 is connected to a first pot body bracket 211, and the first pot body bracket 211 is provided with a first inclined surface 211a capable of cooperating with the first guide surface 131 for guidance. The second accommodating chamber 13b is provided with an inclined second guide surface 132 at the opening. The second pot body 22 is connected to a second pot body bracket 221, and the second pot body bracket 221 is provided with a second inclined surface 221a capable of cooperating with the second guide surface 132 for guidance. The first guide surface 131 and the second guide surface 132 form a V-shaped structure on the integrated furnace chamber inner pan 13. With reference to FIG.1, FIG.5 and FIG.6, a first handle 212 is connected to the outer side surface of the first pot body bracket 211, and a second handle 222 is connected to the outer side surface of the second pot body bracket 221. When the first pot body bracket 211 drives the first pot body 21 into the first accommodating

chamber 13a, and the second pot body bracket 221 drives the second pot body 22 into the second accommodating chamber 13b, the outer side surface of the first pot body bracket 211 and the outer side surface of the second pot body bracket 221 remain flush. The cooperation between the integrated furnace chamber inner pan and the two pot body brackets via the V-shaped guide surfaces ensures that the two pot bodies do not tilt or jam when pushed into the accommodating cavities of the integrated furnace chamber inner pan. Moreover, because of the V-shaped guide structure, when the two pot bodies are pushed in simultaneously, they will not collide or rub against each other, and it also ensures that the outer side surfaces of the first and second pot body brackets remain flush, enhancing the user experience and improving the aesthetic appearance.

[0037] Additionally, the main body 1 is further provided with:

[0038] a first hot air fan 31 arranged above the first electric heating tube 101 and opposite to the position of the first pot body 21;

[0039] a second hot air fan 32 arranged above the second electric heating tube 102 and opposite to the position of the second pot body 22;

[0040] a first reflector plate 71 arranged above the first hot air fan 31;

[0041] a second reflector plate 72 arranged above the second hot air fan 32;

[0042] an integrated heat insulation plate 8 arranged above the first reflector plate 71 and the second reflector plate 72;

[0043] a first cold air fan 61 arranged above the integrated heat insulation plate 8;

[0044] a second cold air fan 62 arranged above the integrated heat insulation plate 8;

[0045] a motor frame 5 arranged above the first cold air fan 61 and the second cold air fan 62;

[0046] a first motor 41 and a second motor 42 installed on the motor frame 5.

[0047] The motor frame 5 is provided with a first through-hole 51 and a second through-hole 52. The output shaft of the first motor 41 passes through the first through-hole 51, and the first hot air fan 31 and the first cold air fan 61 are connected in parallel on the output shaft of the first motor 41. The output shaft of the second motor 42 passes through the second through-hole 52, and the second hot air fan 32 and the second cold air fan 62 are connected in parallel on the output shaft of the second motor 42. Mounting holes allowing the output shaft of the first motor 41 to pass through are provided on the integrated heat insulation plate 8 and the first reflector plate 71, and mounting holes allowing the output shaft of the second motor 42 to pass through are provided on the integrated heat insulation plate 8 and the second reflector plate 72. A cold air duct groove 53 recessed downward in a U-shape or V-shape is formed in the middle of the motor frame 5. With reference to FIG. 7, a cold air penetration hole 53a is provided on the side wall of the cold air duct groove 53, and a cold air outlet 53b is provided on the bottom of the cold air duct groove 53. A cold air channel 2A is

provided between the first pot body 21, the second pot body 22, and the inner wall of the main body. The cold air outlet 53b at the bottom of the cold air duct groove 53 communicates with the cold air channel 2A. The cold air penetration hole 53a on one side of the cold air duct groove 53 is arranged at a position opposite to the first cold air fan 61, and the cold air penetration hole 53a on the other side of the cold air duct groove 53 is arranged at a position opposite to the second cold air fan 62. With reference to FIG.9, the first reflector plate 71 and the second reflector plate 72 are connected to each other by a connecting plate 73, and the first reflector plate 71, the second reflector plate 72, and the connecting plate 73 are connected to form an integrated component structure, forming an integrated reflector plate 7. A ventilation port 73a is provided on the connecting plate 73 connecting the first reflector plate 71 and the second reflector plate 72. The position of the ventilation port 73a corresponds to the cold air outlet 53b at the bottom of the cold air duct groove on the motor frame, and the ventilation port 73a communicates with the cold air channel 2A between the first pot body and the second pot body. With reference to FIG.8, an opening 81 is provided on the middle of the integrated heat insulation plate 8. The cold air duct groove 53 on the motor frame 5 passes through the opening 81 and faces the connecting plate 73 connecting the first reflector plate 71 and the second reflector plate 72. The side wall of the cold air duct groove 53 of the motor frame 5 closely fits the edge of the opening 81 in the middle of the integrated heat insulation plate 8, and the position of the cold air penetration hole 53a on the side wall of the cold air duct groove is higher than the integrated heat insulation plate 8. The peripheral edges of the motor frame 5 are fixedly connected to the inner wall of the main body 1. The periphery of the integrated reflector plate 7 is also fixedly connected to the inner wall of the main body 1. The periphery of the integrated heat insulation plate 8 is fixed onto the integrated reflector plate 7. In this embodiment, with reference to FIG. 10, an air guide frame 9 is arranged at a position above the motor frame 5 corresponding to the cold air duct groove. The air guide frame 9 has a U-shaped or V-shaped air guide surface 91 capable of being inserted into the cold air duct groove.

[0048] During operation of the air fryer of this embodiment, the two hot air fans and the two cold air fans start to rotate at high speed driven by two motors. On one hand, the two hot air fans respectively blow the heat generated by the two electric heating tubes into the interiors of the two pot bodies to heat the food inside the two pot bodies. On the other hand, external cold air enters the space between the body and the motor frame through the cold air inlet on the top of the main body. Since cold air inlets are also provided on the motor frame, the cold air further enters the cold air chamber between the motor frame and the integrated heat insulation plate through the cold air inlets on the motor frame. Under high-speed rotation of the two cold air fans, the cold air enters the cold air duct groove 53 through the cold air penetration holes 53a on the motor frame 5, then further

passes through the cold air outlet 53b at the bottom of the cold air duct groove 53 and the ventilation port 73a on the connecting plate 73 to enter the cold air duct 13c of the integrated furnace chamber inner pan 13, and enters the cold air channel 2A formed between the integrated furnace chamber inner pan 13 and the inner wall of the main body, thereby cooling the inner wall of the main body and dissipating heat to prevent deformation of the main body due to excessive temperature.

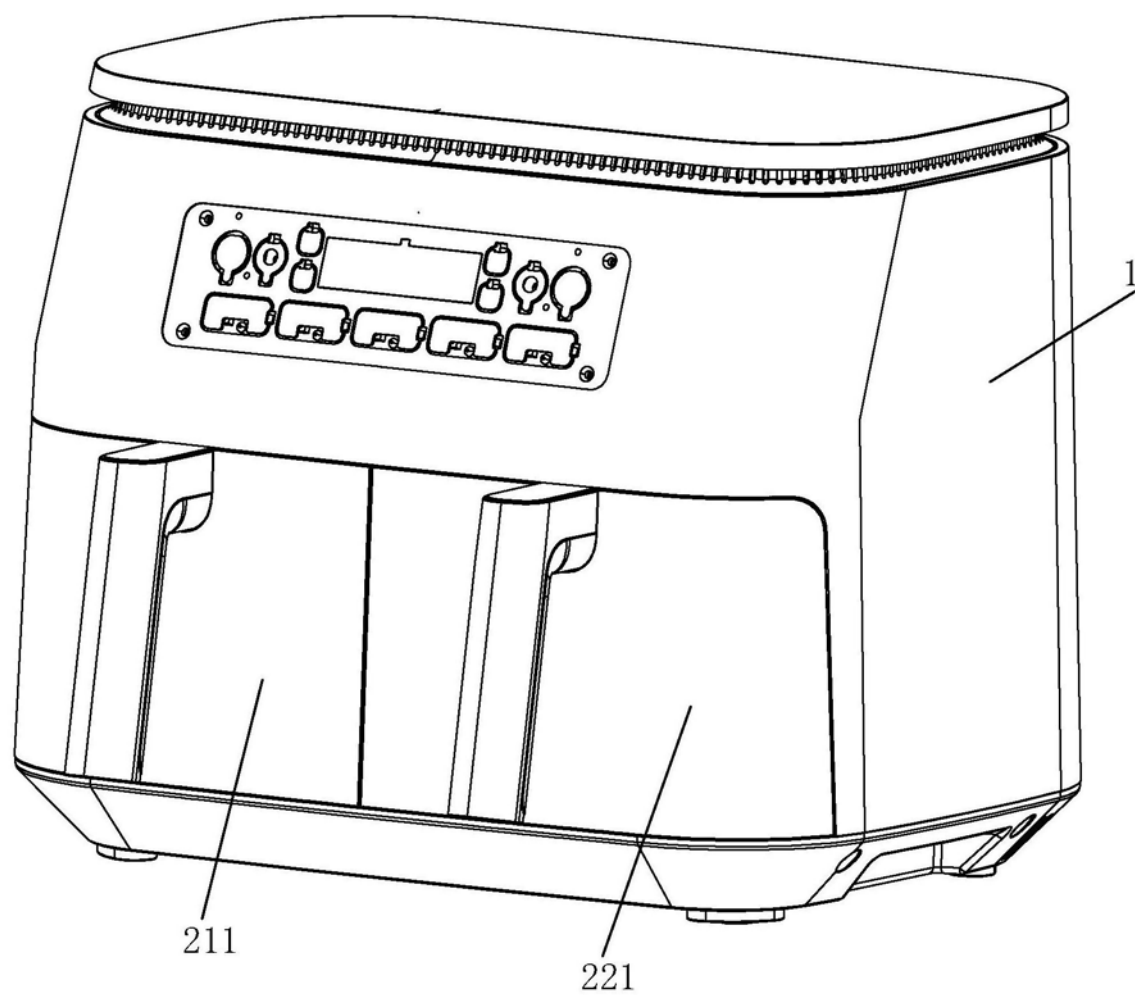


FIG. 1

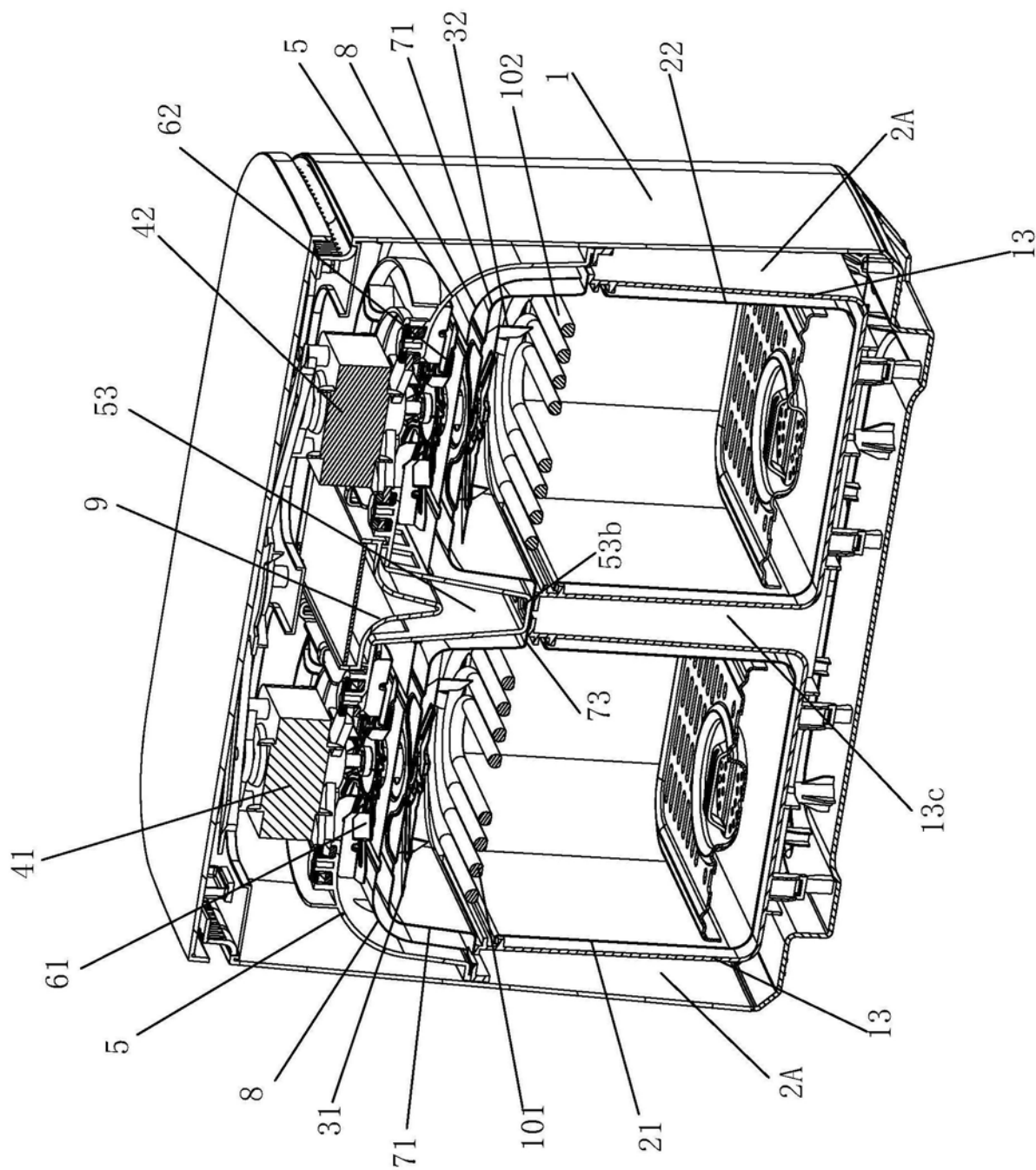


FIG. 2

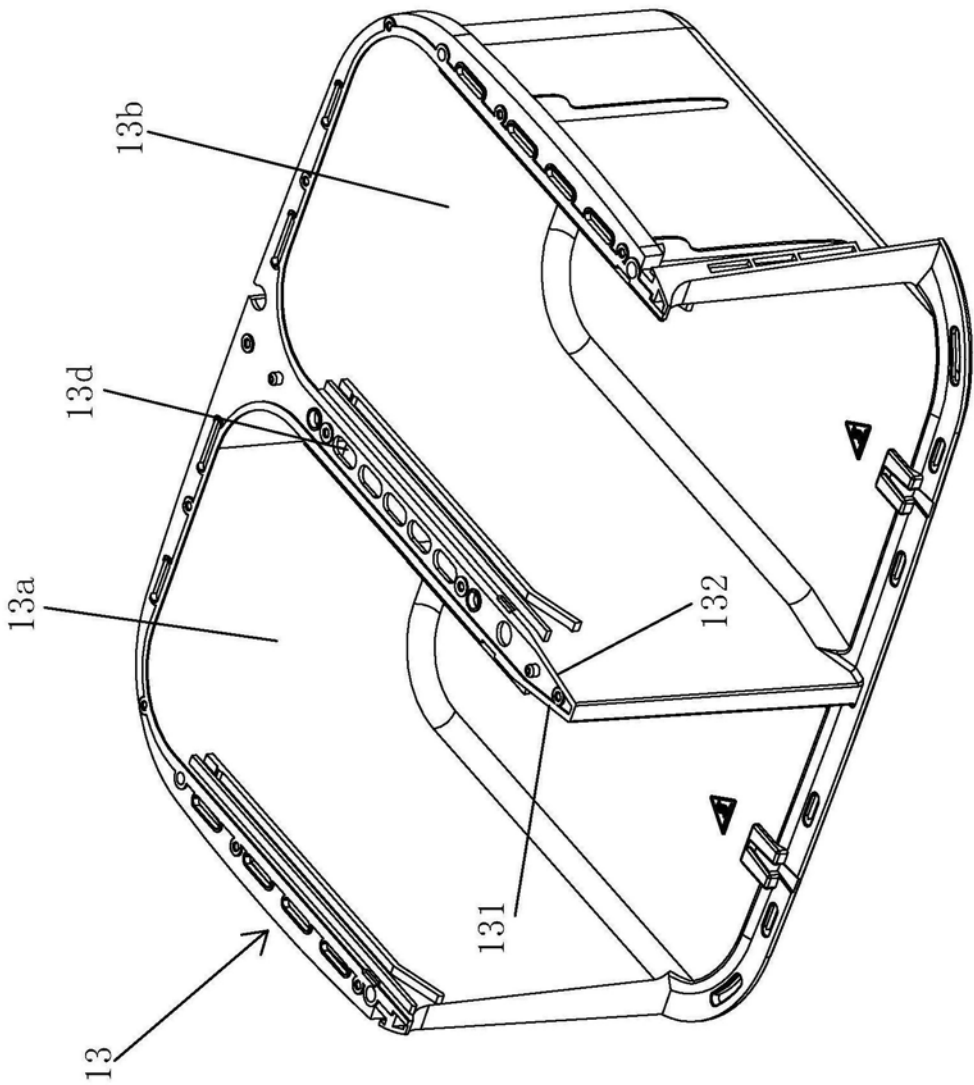


FIG. 3

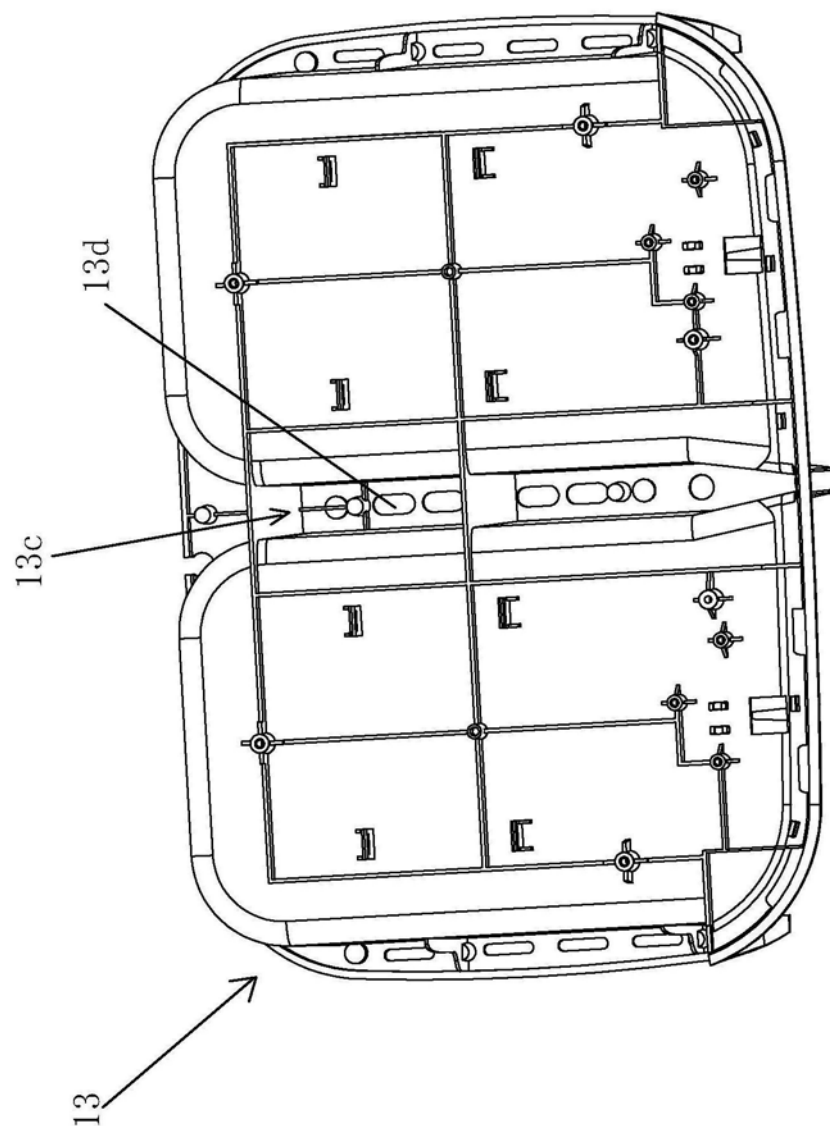


FIG. 4

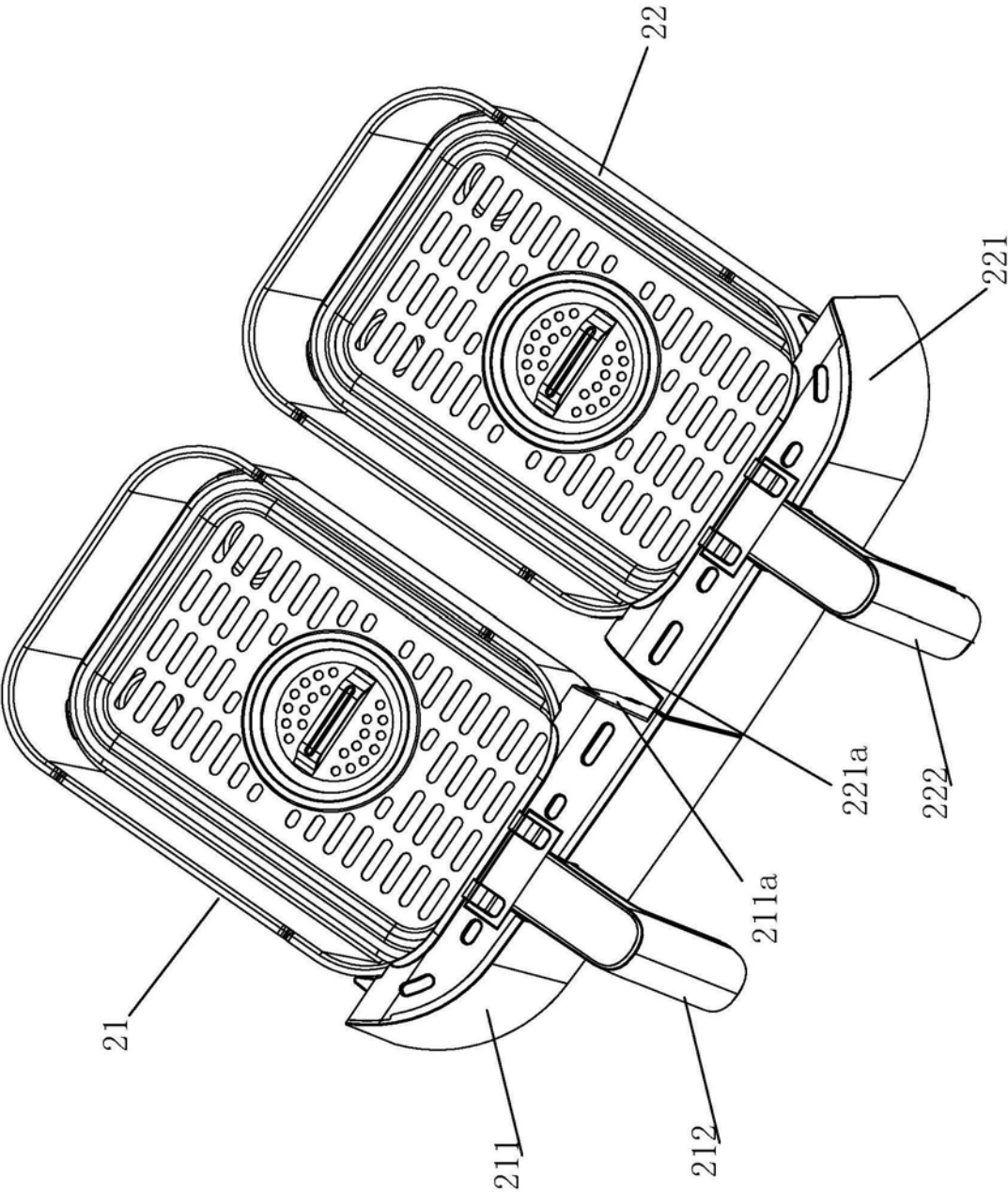


FIG. 5

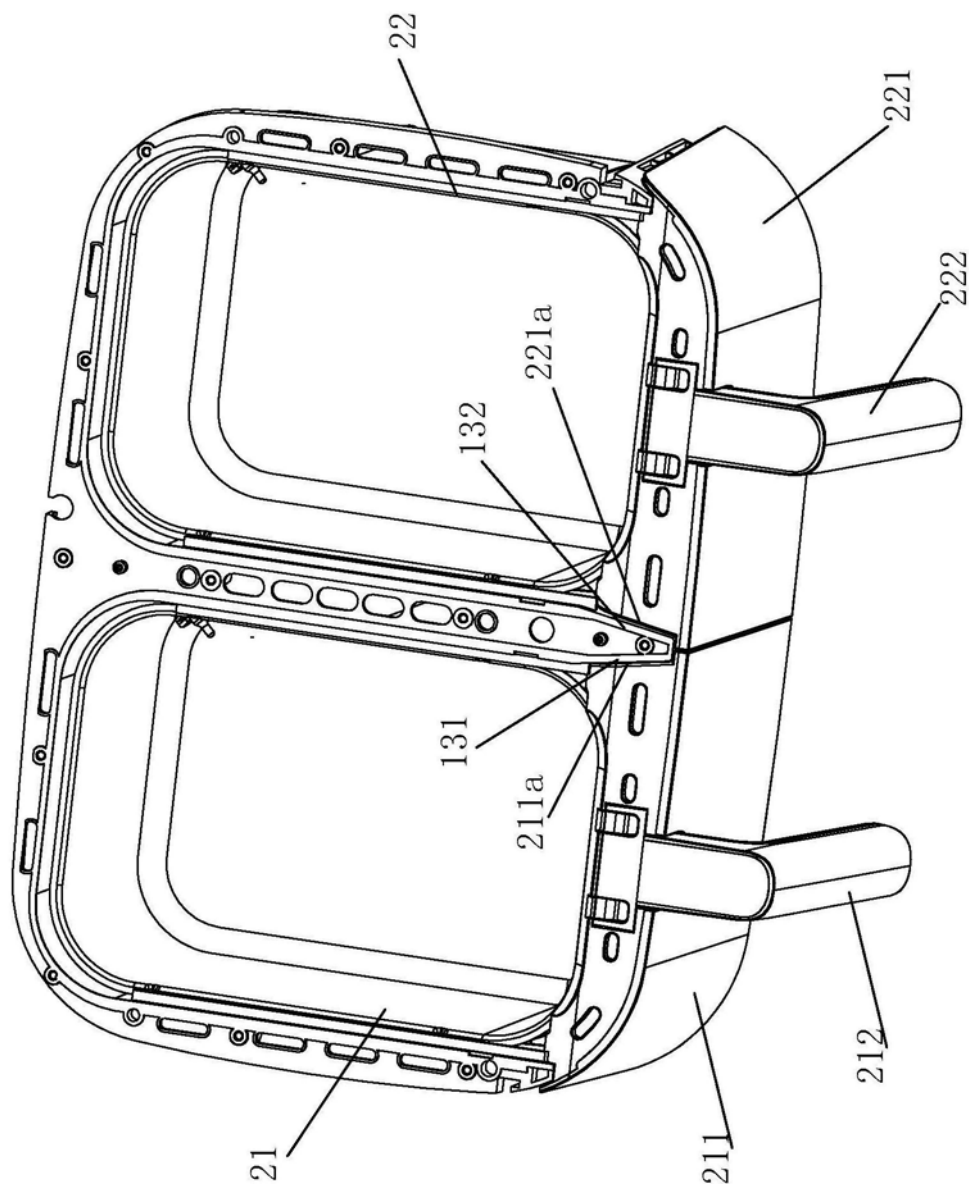


FIG. 6

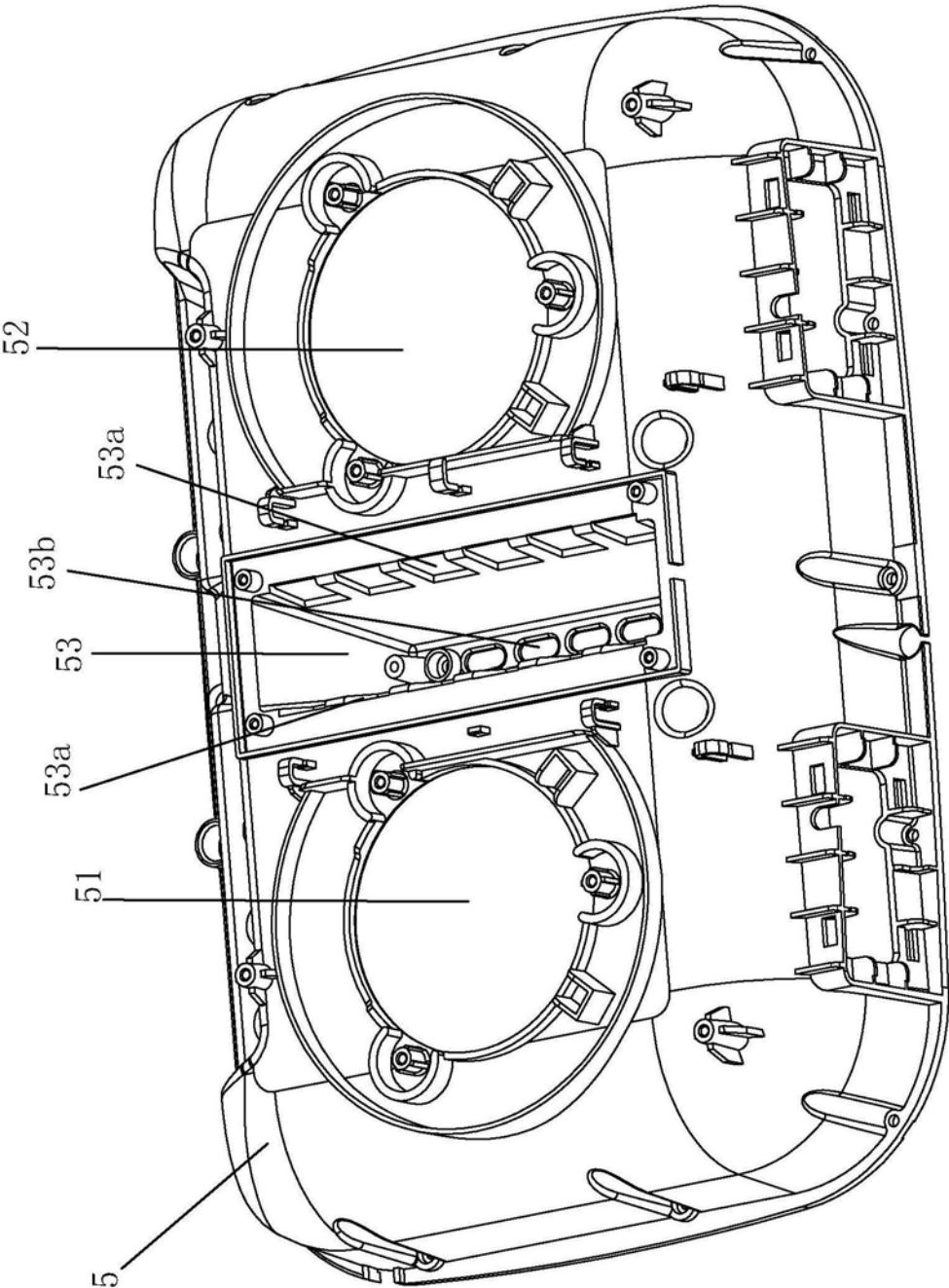


FIG. 7

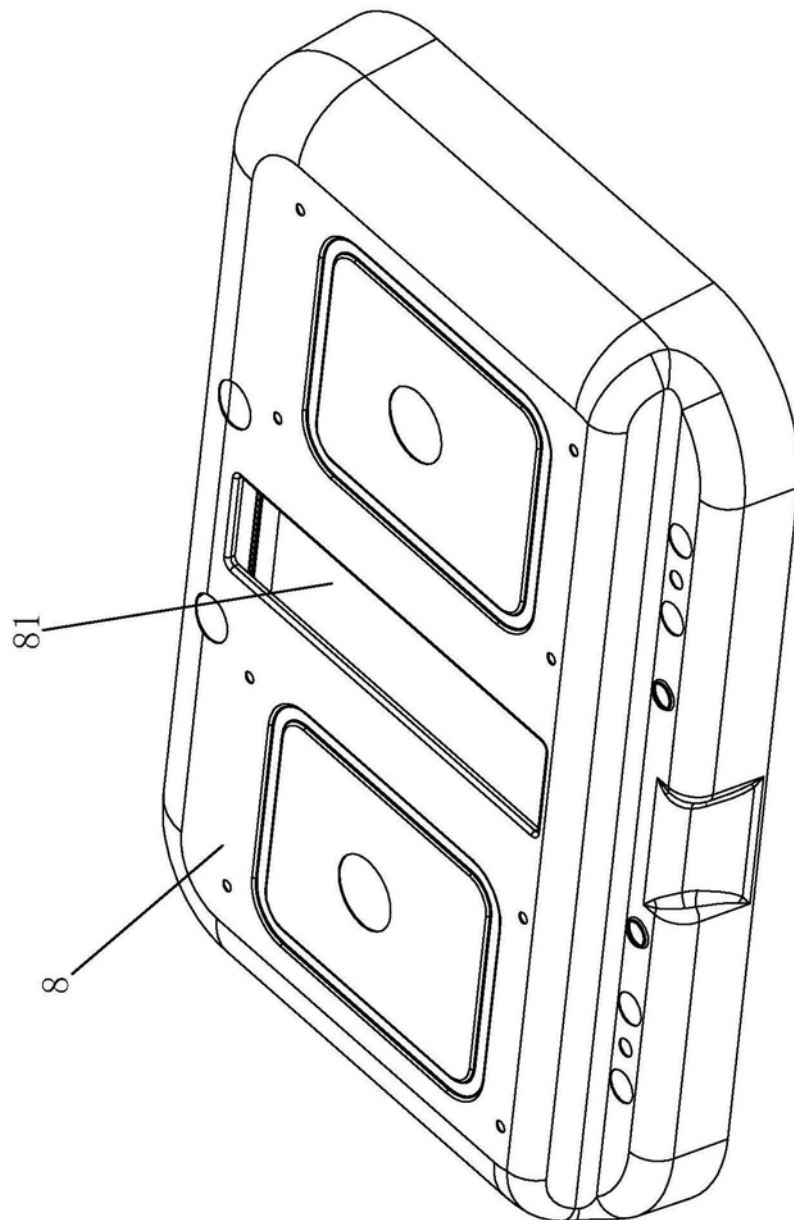


FIG. 8

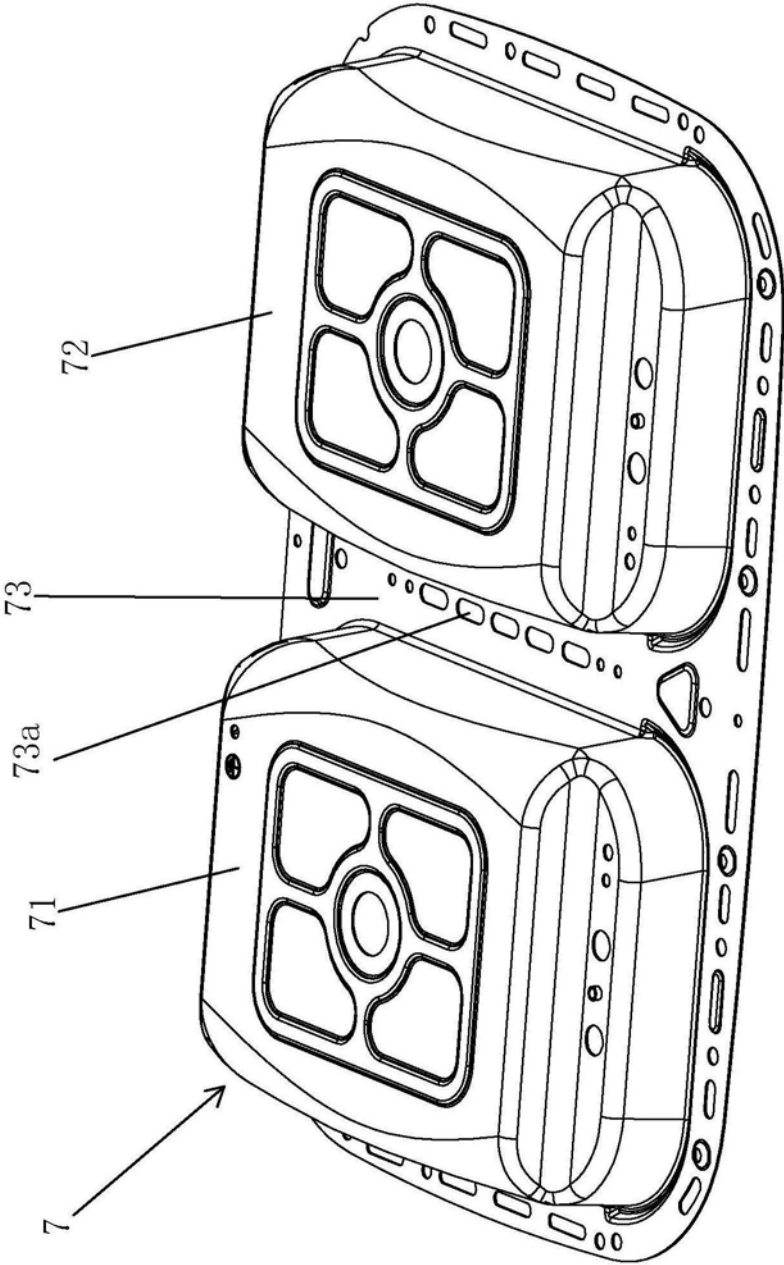


FIG. 9

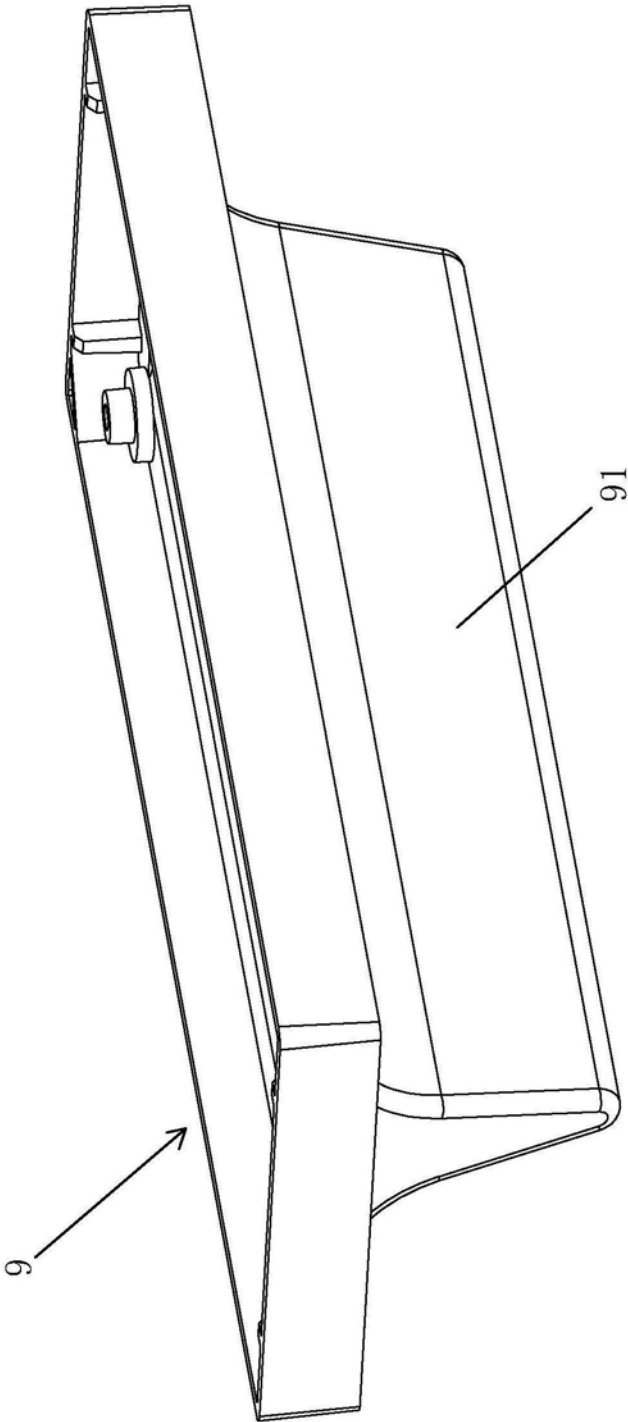


FIG. 10



Legal Advantage

Legal Advantage LLC
Washington DC
10411 Motor City Drive
Suite 750, Bethesda, MD 20817
Phone: 301-450-2161

CERTIFICATION OF TRANSLATION

Original text full file names:

CN110664270A, CN210354396U

Translation full file names:

CN110664270A-EN-Final, CN210354396U-EN-Final

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