WHAT IS CLAIMED IS:

1. A cooking appliance, comprising:

a cooking pot;

a material container, wherein the material container is at least partially accommodated in the cooking pot, a first cavity is formed in the material container, and a second cavity is formed between the cooking pot and the material container, wherein a liquid communicating structure is formed between the first cavity and the second cavity, and the liquid communicating structure communicates the first cavity and the second cavity;

a pressure device, configured to generate a pressure difference between the first cavity and the second cavity; and

a pressure relief structure, being provided with a gas passage connected to at least one of the first cavity and the second cavity, and reducing a pressure difference between the first cavity and the second cavity when the gas passage is communicated.

2. The cooking appliance according to claim 1, wherein

the gas passage is in communication with the environment;

when the gas passage is communicated, the first cavity or the second cavity connected to the gas passage is in communication with the environment.

3. The cooking appliance according to claim 1, wherein

the gas passage is connected to the first cavity and the second cavity, respectively, and when the gas passage is communicated, the gas passage communicates the first cavity and the second cavity.

4. The cooking appliance according to any one of claims 1 to 3, wherein

the gas passage is of a normally open structure,

the flow area of the gas passage is smaller than the flow area of the pressure device.

5. The cooking appliance according to any one of claims 1 to 3, wherein

the pressure relief structure further includes a control member that controls the connection and disconnection of the gas passage.

6. The cooking appliance according to claim 5, wherein

the control member includes a first control valve controlling the connection and disconnection of the gas passage; or

the pressure relief structure further includes an exhaust valve, wherein the exhaust valve includes an exhaust port formed as at least a portion of the gas passage and a valve spool adapted to open or close the exhaust port, and the control member controls the valve spool and makes the valve spool to open or close the exhaust port.

7. The cooking appliance according to claim 1 or 2, wherein

one of the first cavity and the second cavity is connected to the pressure relief structure and the pressure device,

the pressure device is adapted to pressurize or depressurize the first or second cavity to which it is connected,

the pressure relief structure is adapted to provide pressure relief to the first cavity or the second cavity connected thereto.

8. The cooking appliance according to claim 7, wherein

one of the first cavity and the second cavity is connected to the pressure device,

the cooking appliance is provided with a gas communicating structure fitted to the other of the first cavity and the second cavity.

9. The cooking appliance according to claim 8, wherein

the pressure device is connected to the first cavity and is adapted to depressurize the first cavity, and the gas communicating structure is in communication with the second cavity and feeds air to the second cavity; or

the pressure device is connected to and adapted to pressurize the second cavity, and the gas communicating structure is in communication with and exhausts air from the first cavity.

10. The cooking appliance according to claim 8, wherein

the gas communicating structure comprises a passage structure,

wherein the passage structure is a normally open structure, or the passage structure is provided with a one-way valve, or the passage structure is provided with a second control valve and the second control valve is adapted to control the connection and disconnection of the passage structure.

11. The cooking appliance according to claim 8, wherein

the gas communicating structure is provided on the cooking pot; or

the cooking appliance includes a cover body at least covering the cooking pot, and the cover body is provided with the gas communicating structure.

12. The cooking appliance according to claim 11, wherein

the cooking pot includes a pot body and a pot handle, at least one of the pot body and the pot handle being provided with the gas communicating structure.

13. The cooking appliance according to claim 12, wherein

the gas communicating structure is provided on the pot handle, the pot body is provided with a through hole, and the through hole communicates the gas communicating structure and the second cavity.

14. The cooking appliance according to claim 7, wherein

one of the first cavity and the second cavity is connected to the pressure device, and the other of the first cavity and the second cavity is a sealed cavity.

15. The cooking appliance according to any one of claims 1 to 3, wherein

the pressure device includes a gas suction device adapted to decompress the first cavity or the second cavity connected to the gas suction device in a gas suction manner,

the cooking appliance is provided with a gas inlet, and one of the first cavity and the second cavity connected to the pressure device is in communication with the gas inlet,

the pressure device further includes a third control valve, wherein the third control valve is connected to the gas inlet and the gas suction device, and controls the connection and disconnection between the gas suction device and the gas inlet.

~~16. The cooking appliance according to any one of claims 1 to 3, wherein~~

~~the cooking appliance includes a cover body at least covering the cooking pot, and the pressure device and the pressure relief structure are provided on the cover body.~~

~~17. The cooking appliance according to claim 1, wherein~~

~~the cooking appliance includes a cover body, and the cover body includes a first cover plate, a first sealing member and a second sealing member are provided on the first cover plate, the first cover plate covers the cooking pot, the first sealing member matches with the cooking pot, and the second sealing member matches with the material container.~~

~~18. The cooking appliance according to claim 1, wherein~~

~~the cooking appliance includes a cover body, and the cover body includes a second cover plate and a third cover plate, wherein the second cover plate is provided with a first sealing member, the third cover plate is provided with a second sealing member, the second cover plate covers the cooking pot and the first sealing member matches with the cooking pot, the third cover plate covers the material container and the second sealing member matches with the material container.~~

~~19. The cooking appliance according to claim 17 or 18, wherein~~

~~the first sealing member and the second sealing member are both sealing rings, and the first sealing member is nested and distributed outside the second sealing member,~~

~~the first sealing member and the second sealing member are internally and externally spaced, and the cover body is provided with a gas communicating structure at a position between the first sealing member and the second sealing member.~~

~~20. The cooking appliance according to claim 17 or 18, wherein~~

~~the material container is configured with a mating surface against which the second sealing member abuts.~~

~~21. The cooking appliance according to claim 20, wherein~~

~~the mating surface is an annular surface and the annular surface extends from an inner end to an outer end in a range of 5 mm to 15 mm.~~

~~22~~16. The cooking appliance according to any of claims 1~~, 2,~~ to ~~-~~3, ~~17 and 18,~~ wherein

the cooking pot is provided with a water level indication mark,

the material container is provided with a positioning part, the positioning part matches with the cooking pot so that the material container is positioned in the cooking pot, and the position of the material container is adapted to the position of the corresponding water level indication mark.

~~23~~17. The cooking appliance according to claim ~~22~~16, wherein

the material container is provided with the liquid communicating structure, the liquid communicating structure includes a passage, the passage includes a port and the passage is in communication with the second cavity from the port, wherein when the positioning part matches with the cooking pot, at least a part of the port is located below the corresponding water level indication mark,

the wall of the material container is provided with one or more through holes, and the through holes are formed as at least a part of the liquid communicating structure; and/or the material container is provided with a suction pipe formed as at least a part of the liquid communicating structure.

~~24~~18. The cooking appliance according to claim ~~22~~16, wherein

the material container includes a concave cavity, wherein the concave cavity includes a structure with an opening at one end, a flanging is provided on the concave cavity along an edge of the opening, and the flange is formed as at least a part of the positioning part,

the flanging is configured with a lower projection that rests on the cooking pot; and/or the concave cavity includes a bottom wall and a side wall, and at least one of the bottom wall and the side wall are provided with the liquid communicating structure.

~~25~~19. The cooking appliance according to claim ~~24~~18, wherein

the flanging includes a first arm segment and a second arm segment, the first arm segment transitions between the second arm segment and the concave cavity, the second arm segment is configured to form the positioning part, and the first arm segment is adapted to abut against a second sealing member,

the second arm segment includes an upper side and a lower side, and the second arm segment is configured in a concave shape in which the upper side is concave with

respect to the first arm segment and the lower side is convex with respect to the first arm segment; and/or at least a part of the surface of the first arm segment is configured as a mating surface against which the second sealing member abuts.

~~26~~20. A control method of the cooking appliance for the cooking appliance of any one of claims 1 to ~~25~~19, wherein the control method of the cooking appliance comprises:

controlling the pressure device to intermittently pressurize or depressurize one of the first cavity and the second cavity.

~~27. The control method of the cooking appliance according to claim 26, wherein the step of controlling the pressure device to intermittently pressurizing or depressurizing one of the first cavity and the second cavity comprises:~~

~~controlling a gas passage to be in a closed state during pressurization or depressurization of one of the first cavity and the second cavity by the pressure device; and~~

~~controlling the gas passage to be in an open state during stop of pressurization or depressurization of one of the first cavity and the second cavity by the pressure device.~~

~~28. The control method of the cooking appliance according to claim 26 or 27, wherein before the step of controlling the pressure device to intermittently pressurizing or depressurizing one of the first cavity and the second cavity, the control method of the cooking appliance further comprises:~~

~~controlling a heating device of the cooking appliance to heat a cooking pot.~~

~~29. The control method of the cooking appliance according to claim 28, wherein the step of controlling the heating device of the cooking appliance to heat the cooking pot specifically comprises:~~

~~controlling the heating device of the cooking appliance to heat the cooking pot for a preset time length; or~~

~~controlling the heating device of the cooking appliance to heat the cooking pot so that the temperature of a medium in the cooking pot rises to a preset temperature threshold.~~

~~30. The control method of the cooking appliance according to claim 26 or 27, wherein after the step of controlling the pressure device to intermittently pressurizing or depressurizing one of the first cavity and the second cavity, the control method of the cooking appliance further comprises:~~

~~controlling a heating device of the cooking appliance to heat a cooking pot.~~

~~31. A control device of a cooking appliance, comprising:~~

~~a processor; and~~

~~a memory for storing executable instructions of the processor, wherein the processor, when executing the executable instructions stored in the memory, implements the steps of the control method of the cooking appliance according to any one of claims 26 to 30.~~

~~32. A cooking appliance, comprising:~~

~~the control device of the cooking appliance according to claim 31.~~

~~33. A computer readable storage medium on which a computer program is stored, wherein the computer program is adapted to be loaded and executed by a processor, and when the computer program is executed by the processor, the steps of the control method of a cooking appliance according to any one of claims 26 to 30 is implemented.~~

~~34~~21. A control method of a cooking appliance comprising a first cavity and a pressure device, wherein the control method of the cooking appliance comprises:

controlling operation of the pressure device during a water absorption stage in response to a cooking instruction, the pressure device being configured to pressurize or depressurize the first cavity,

wherein the pressurization or depressurization of the first cavity is adapted to feed water to the first cavity.

~~35. The control method of the cooking appliance according to claim 34 for a cooking appliance further comprising a second cavity and communicating between the second cavity and the first cavity, wherein the step of controlling operation of the pressure device during a water absorption stage in response to a cooking instruction specifically comprises:~~

~~controlling the pressure device to start operation to configure a pressure difference between the first cavity and the second cavity in response to the cooking instruction, the pressure difference being adapted to drive the liquid in the second cavity into the first cavity.~~

~~36. The control method of the cooking appliance according to claim 35 for a cooking appliance further comprising a pressure relief structure, wherein the step of controlling operation of the pressure device during a water absorption stage in response to a cooking instruction further comprises:~~

~~controlling to open the pressure relief structure,~~

~~wherein the pressure relief structure is configured to relieve pressure from the first cavity.~~

~~37. The control method of the cooking appliance according to claim 36, wherein the step of controlling operation of the pressure device during a water absorption stage in response to a cooking instruction specifically comprises:~~

~~controlling the pressure device to continue operating in response to the cooking instruction;~~

~~controlling the pressure device to enter into a soaking working mode upon detecting that the operating parameter of the pressure device and/or the state parameter of the first cavity matches the preset immersion detection parameter,~~

~~wherein in the soaking working mode, the pressure device is configured to enter into a closed state, or the pressure device is configured to operate at reduced power, or the pressure device is configured to operate intermittently.~~

~~38. The control method of the cooking appliance according to claim 37, wherein the water absorption stage comprises a soaking and water absorption stage, and the step of controlling to open the pressure relief structure specifically comprising:~~

~~detecting the duration time length of the pressure device in the soaking working mode in the soaking and water absorption stage; and~~

~~controlling to open the pressure relief structure if the duration time length is greater than or equal to the first preset time length.~~

~~39. The control method of the cooking appliance according to claim 38, further comprising:~~

~~starting alternately executing the operations of controlling to open the pressure device and controlling to open the pressure relief structure in the washing and water absorption stage in response to the operation of closing the pressure relief structure upon detecting that the pressure relief structure completes the pressure release operation in the soaking and water absorption stage.~~

~~40. The control method of the cooking appliance according to claim 39 for a cooking appliance further comprising a heating device, wherein the step of starting alternately executing the operations of controlling to open the pressure device and controlling to open the pressure relief structure in the washing and water absorption stag specifically comprises:~~

~~controlling to open the heating device and collecting the water temperature of the first cavity and/or the second cavity upon detecting that the pressure relief structure completes the pressure release operation of the soaking and water absorption stage; and~~

~~alternately executing the operations of controlling to open the pressure device and controlling to open the pressure relief structure upon detecting that the water temperature is greater than or equal to the preset washing temperature.~~

~~41. The control method of the cooking appliance according to claim 37, wherein the water absorption stage includes a washing and water absorption stage, and the operation of controlling the pressure device in the water absorption stage in response to the cooking instruction comprises:~~

~~alternately executing the operations of controlling to open the pressure device and controlling to open the pressure relief structure in response to the cooking instruction.~~

~~42. The control method of the cooking appliance according to claim 39 or 41, wherein the alternately executing the operations of controlling to open the pressure device and controlling to open the pressure relief structure in the washing and water absorption stage specifically comprises:~~

~~controlling to open the pressure relief structure in response to controlling operation of the pressure device into the soaking working mode during an alternate execution.~~

~~43. The control method of the cooking appliance according to claim 39 or 41, further comprising:~~

~~if the number of times of opening the pressure device and/or the pressure relief structure is greater than or equal to a preset number of times during the washing and water absorption stage, controlling the pressure device and the pressure relief structure to close after the pressure relief structure releases pressure from the first cavity; and/or~~

~~if the duration time length of the washing and water absorption stage is greater than or equal to a second preset time length, controlling the pressure device and the pressure relief structure to close after the pressure relief structure releases pressure from the first cavity.~~

~~44. The control method of the cooking appliance according to any one of claims 36 to 41, wherein the controlling to open the pressure relief structure further comprises:~~

~~controlling to close the pressure relief structure upon detecting that the opening time length of the pressure relief structure is greater than or equal to a third preset time length, and/or upon detecting that the state parameter of the first cavity matches a preset fall back detection parameter.~~

~~45. The control method of the cooking appliance according to any one of claims 35 to 41, wherein the controlling the pressure device to start operation configures a pressure difference between the first cavity and the second cavity specifically comprises:~~

~~controlling the pressure device to suck gas from the first cavity and/or controlling the pressure device to exhaust air from the second cavity to configure the pressure difference.~~

~~46. The control method of the cooking appliance according to any one of claims 39 to 41, before the operation of controlling the pressure device in the water absorption stage in response to the cooking instruction, further comprising:~~

~~acquiring a level parameter of the second cavity;~~

~~determining that the liquid level of the second cavity is lower than or equal to the bottom surface of the first cavity according to the liquid level parameter, controlling the pressure device and the pressure relief structure to be operated in the soaking and water absorption stage or the washing and water absorption stage; and~~

~~determining that the liquid level of the second cavity is higher than the bottom surface of the first cavity according to the liquid level parameter, and controlling the pressure device and the pressure relief structure to be operated successively in the soaking and water absorption stage and the washing and water absorption stage.~~

~~47. The control method of the cooking appliance according to claim 46 for a cooking appliance further comprising a drain structure and/or a pumping device, further comprising:~~

~~if the liquid level of the second cavity is higher than the liquid level of the bottom surface of the first cavity, controlling to open the drainage structure and/or the pumping device after ending the water absorption stage; and~~

~~controlling to close the drainage structure and/or the pumping device upon detecting that the liquid level of the second cavity is lower than or equal to the bottom surface of the first cavity.~~

~~48~~22. A control method for a cooking appliance comprising a first cavity, a pressure device, a drain device and/or a pumping device, wherein the control method for the cooking appliance comprises:

in response to a cooking instruction, controlling operation of a pressure device during a water absorption stage, the pressure device being configured to pressurize or depressurize a first cavity, the first cavity pressurization being adapted to allow positive pressure water absorption of material in the first cavity, the first cavity depressurization being adapted to allow negative pressure water absorption of material in the first cavity; and

controlling the liquid drainage device and/or the pumping device to start upon detecting that a working parameter of the pressure device satisfies a preset water absorption treatment condition,

wherein the liquid drainage device is configured to drain the first cavity and the pumping device is configured to pump the first cavity.

~~49. The control method of the cooking appliance according to claim 48, further for a cooking appliance comprising a liquid inlet device, before the operation of controlling the pressure device in response to a cooking instruction, further comprising:~~

~~controlling the liquid inlet device configured to introduce a dosed liquid into the first cavity to start.~~

~~50. The control method of the cooking appliance according to claim 48, further comprising:~~

~~controlling to open the pressure relief structure upon detecting that the operating parameter satisfies the water absorption treatment condition.~~

~~51. The control method of the cooking appliance according to claim 48, wherein the step of controlling the liquid drainage device and/or the pumping device to start upon detecting that a working parameter of the pressure device satisfies a preset water absorption treatment condition, specifically comprises:~~

~~determining that the working parameter satisfies the water absorption treatment condition upon detecting that the opening time of the pressure device is greater than or equal to a fourth preset time length, and/or upon detecting that the duration time length of the first cavity at a specified pressure is greater than or equal to a fifth preset time length;~~

~~controlling the liquid drainage device to start and detecting a liquid level of the first cavity; and~~

~~controlling to close the liquid drainage device and/or the pumping device upon detecting that the liquid level of the first cavity is lower than or equal to a preset water level.~~

~~52. The control method of the cooking appliance according to any one of claims 35 to 41, and 48 to 51 for a cooking appliance further comprising a heating device, further comprising:~~

~~determining to end the water absorption stage, and in a boiling cooking stage, controlling the heating device to start operating according to the first power, and controlling the operation time length of the heating device to be greater than or equal~~

to the sixth preset time length upon detecting that the duration time length of the water absorption stage is greater than or equal to the preset water absorption time length.

53. The control method of the cooking appliance according to claim 52, further comprising:

determining to end the boiling cooking stage, and controlling the heating device to continue operating according to the second power during a simmering cooking stage upon detecting that an operating time of the heating device according to the first power is greater than or equal to a sixth preset time length, and/or upon detecting that a duration time length of the water temperature in the second cavity in a state of being greater than or equal to a boiling temperature is greater than or equal to a seventh preset time length; and

controlling to close the heating device to end the cooking process upon detecting that the operation time length of the heating device according to the second power is greater than or equal to the eighth preset time.

54. A control device of a cooking appliance, comprising:

a memory;

a processor; and

a computer program stored on the memory and executable on the processor,

wherein the computer program when executed by the processor implements the steps of the control method of the cooking appliance according to any one of claims 34 to 47 and 52, 53.

55. A control device of a cooking appliance, comprising:

a memory;

a processor; and

a computer program stored on the memory and executable on the processor,

wherein the computer program when executed by the processor implements the steps of the control method of the cooking appliance according to any one of claims 50 to 53.

56. A cooking appliance, comprising:

~~a cooking pot comprising a first cavity;~~

~~the control device of the cooking appliance according to claim 54; and~~

~~a pressure device connected to the control device, the pressure device being configured to pressurize or depressurize the first cavity, the first cavity pressurization or depressurization being adapted to feed water to the first cavity.~~

~~57. The cooking appliance according to claim 56, further comprising:~~

~~a material container, wherein the material container is at least partially accommodated in the cooking pot, a first cavity is formed in the material container, and a second cavity is formed between the cooking pot and the material container, wherein a liquid passage is formed between the first cavity and the second cavity, and the liquid passage communicates the first cavity and the second cavity;~~

~~wherein the pressure device is further configured to configure a pressure difference between the first cavity and the second cavity, and the pressure difference is adapted to drive liquid in the second cavity into the first cavity.~~

~~58. The cooking appliance according to claim 57, further comprising:~~

~~a pressure relief structure comprising a first gas passage connected to at least one of the first cavity and the second cavity, and reducing a pressure difference between an inside and an outside of the first cavity when the first gas passage is communicated.~~

~~59. The cooking appliance according to claim 58, further comprising:~~

~~a cavity state detection assembly provided in the material holder and/or the cooking pot, the water absorption state detection assembly being connected to the control device, the water absorption state detection assembly being configured to detect a state parameter of the first cavity and/or the second cavity, the state detection assembly comprising a temperature sensor, and a liquid level sensor and/or a gas pressure sensor.~~

~~60. The cooking appliance according to claim 58, further comprising:~~

~~a liquid drainage device and/or a pumping device connected to the control device, the liquid drainage device being configured to drain liquid from the second cavity, the pumping device being configured to pump liquid from the second cavity.~~

~~61. A cooking appliance, comprising:~~

~~a cooking pot comprising a first cavity;~~

~~the control device of the cooking appliance according to claim 55;~~

~~a pressure device connected to the control device, the pressure device being configured to pressurize or depressurize the first cavity, the first cavity pressurization being adapted to allow the material in the first cavity to absorb water under positive pressure, and the first cavity depressurization being adapted to allow the material in the first cavity to absorb water under negative pressure; and~~

~~a liquid drainage device and/or a pumping device connected to the control device, the liquid drainage device being configured to drain the first cavity and the pumping device being configured to pump the first cavity.~~

~~62. The cooking appliance according to claim 61, further comprising:~~

~~a liquid inlet device connected to the control device, the liquid inlet device being configured to introduce a dosed liquid into the first cavity.~~

~~63. The cooking appliance according to claim 61, further comprising:~~

~~a pressure relief structure connected to the control device, the pressure relief structure being configured to relieve pressure from the first cavity.~~

~~64. The cooking appliance according to any one of claims 56 to 63, further comprising:~~

~~a heating device connected to the control device, the heating device being configured to heat the cooking pot.~~

~~65. A computer readable storage medium on which a control program of a cooking appliance is stored, wherein when the control program is executed by a processor, the steps of the control method of the cooking appliance according to any one of claims 34 to 53 is implemented.~~