CLAIMS

I/we claim:

1. A food heating device, comprising:

a placement device, comprising a casing, a placement board, and a bottom panel, the placement board being disposed in the casing and configured to place a food item, the bottom panel being fixedly disposed in the casing and including a plurality of slot openings; and

a channel arranged correspondingly to the slot openings; and

a heating device, comprising a steam portion, a heated water portion and an injection member, wherein the steam portion and the heated water portion are in communication with the injection member, the injection member passes through the casing and is movably provided corresponding to the placement board, the injection member is capable of moving up and down relative to the placement board in the casing, the steam portion and the heated water portion are capable of inject steam and heated water simultaneously or sequentially through the injection member so as to heat the food item, the slot openings of the bottom panel and the channel are capable of discharging any overflowing water from the food item; and

a movement device, comprising a sliding block and a sliding shaft, the sliding block being movably provided on the sliding shaft;

wherein the injection member is connected to the sliding block, when the sliding block moves up and down along the sliding shaft, the sliding block drives the injection member to together move up and down.

2. The food heating device according to claim 1, wherein the movement device further comprises a clamping member, and the clamping member is fixed on the sliding block and clamps the injection member.

3. The food heating device according to claim 2, wherein the movement device further comprises a fixing base, the fixing base is fixed on the casing, and the injection member movably passes through the fixing base and the casing.

4. The food heating device according to claim 1, wherein the placement device further comprises a door panel and a driving shaft, and the driving shaft is connected to the panel and is configured to move the door panel.

5. The food heating device according to claim 4, wherein the placement board is fixed on the door panel, and the driving shaft is configured to move the door panel to drive the placement board to move out of or move into the casing.

6. The food heating device according to claim 4, wherein the placement board comprises a hollow region and a frame, the frame encircles the hollow region, the hollow region is configured to allow the food item to pass through, and the frame is configured to support the food item.

7. The food heating device according to claim 4, further comprising:

an air extraction device, provided on the casing and being in communication with an interior of the casing.

8. The food heating device according to claim 1, further comprising:

a control module and a scanning device, the control module being signally connected to the scanning device and the heating device, and the scanning device being configured to read information associated with the food item.

9. A food heating method, comprising steps of:

moving out a placement board from a casing of a placement device such that the placement board is exposed;

placing a food item on the placement board being exposed;

moving back the placement board into the casing such that the placement board is enclosed;

using a movement device, comprising a sliding block and a sliding shaft, the sliding block being movably provided on the sliding shaft;

injecting steam by a steam portion and injecting heated water by a heated water portion simultaneously or sequentially through an injection member of a heating device so as to heat the food item, wherein the steam portion and the heated water portion are in communication with the injection member, the injection member is capable of moving up and down relative to the placement board in the casing, the injection member is connected to the sliding block, when the sliding block moves up and down along the sliding shaft, the sliding block drives the injection member to together move up and down, and the injection member passes through the casing and is movably provided corresponding to the placement board, and

discharging heated water overflowing from the food item through a plurality of slot openings and a corresponding channel.

10. The food heating method according to claim 9, further comprising, prior to the step of injecting steam and hot water, a step of:

reading heating information associated with the food item by a scanning device signally connected to a control module being configured to control the steam portion and the hot water portion of the heating device according to the heating information.

11. The food heating method according to claim 10, wherein the heating information comprises injection time points, duration, temperature ranges of steam and hot water, or a combination thereof.

12. The food heating method according to claim 9, wherein the step of injecting steam and hot water further comprises a step of:

moving up and down the injection member to disperse steam, hot water, or a combination thereof more uniform in the food item.