Patent Literature

(Patent Literature 1) Korea Utility Model Publication Notification 2008-0004792

(Patent Literature 2) Korea Utility Model Registration Notification 20-0450617

(Patent Literature 3) Korea Utility Model Registration Notification 20-0450617

Summary of Invention

Technical Problem

An objective of the present invention, devised to solve above described problems, is to provide a lid for a vacuum cooking pot capable of simultaneously implementing vacuum and an overflow prevention as well.

Another objective of the present invention is to provide a lid for a vacuum cooking pot that can prevent an overflow while clearly providing and releasing the vacuum.

Yet another objective of the present invention is to provide a lid for a vacuum cooking pot that can practically prevent an overflow while providing a vacuum.

Solution to Problem

To achieve above described objective, a vacuum lid for opening and closing a cooking chamber of a vacuum cooking pot of the present invention described in claim 1 includes: a lid body; a slot formed at the edge of said lid body; a vacuum packing mounted in said slot; and a lid handle installed in the center of

said lid body, wherein said lid handle includes: a central hole unit disposed on ~~the~~ a through-hole formed in the center of said lid body; a central cap unit coupled with said central hole unit and supported by said lid body; and a check valve installed inside of said central hole unit; and an arm initiated from the one side of said central cap unit and protruding towards the radial direction of said lid body, so that when the check valve is pulled up the vacuum of the cooking chamber is released. According to the configuration in claim 1, a vacuum function and an overflow prevention function can be achieved with only one lid handle.

In a lid for a vacuum cooking pot in claim 2 of the present invention, said check valve includes: an open-close flange disposed on the upper surface of the open-close hole formed in said central hole unit; a top unit formed on the top of said open-close flange; a central hole flange disposed under the bottom surface of said open-close hole; a connecting section connecting said open-close flange with said central hole flange to form a relief path; and a flange being formed in between said top unit and said open-close flange.

In a lid for a vacuum cooking pot in claim 3 of the present invention, it is advantageous in that the diameter of said flange is embodied to be greater than that of said open-close flange but smaller than that of the through-hole of said central cap unit.

According to the configuration in claim 3, the flange provides a re-blocking function against the overflowing of foreign substances passing through the open-close flange.

According to a lid for a vacuum cooking pot described in claim 4, it is advantageous in that multiple holes are formed in said flange.

~~A lid for a vacuum cooking pot described in claim 5 of the present~~

~~invention can be erected since an arm initiated from the one side of said central cap unit and protruding towards the radial direction of said lid body is further formed.~~

In a lid for a vacuum cooking pot described in claim ~~6~~ 5 of the present invention, a guide piece for guiding steam to upward direction is installed in said central cap unit. According to the configuration in claim ~~6~~5, concerns of getting burn from the steam for a user are eliminated by preventing the steam from directing towards the arm.

A vacuum cooking pot of the present invention described in claim ~~7~~ 6 includes: a container provided with a cooking chamber; a vacuum lid for opening and closing said cooking chamber~~container~~; and a container handle installed in said container, wherein said vacuum lid includes: a lid body; a slot formed at the edge of said lid body; a packing for vacuum mounted inside of said slot; and a lid handle installed on the center of said lid body, wherein said lid handle includes: a central hole unit disposed on the through-hole formed in the center of said lid body; a central cap unit coupled with said central hole unit and supported by said lid body; and a check valve installed inside of said central hole unit. ~~In a vacuum cooking pot of the present invention described in claim 8, it is advantageous in that a~~ A lid locking member is further installed in said container handle~~.~~, wherein

~~In a vacuum cooking pot of the present invention described in claim 9,~~ said lid locking member includes: a locking slider~~,~~ and a guide member guiding said locking slider towards radial direction with respect to said container handle.~~, and~~ As described in claim 7, the lid locking member may further include an elastic clip mounted in said

container handle and determines the position of said locking slider.

In a vacuum cooking pot of the present invention described in claim ~~10~~8, said guide member includes: a guide rail formed at the bottom surface of said locking slider; and a guide rail slot section guiding said guide rail section, wherein ~~a~~ said elastic clip ~~for~~ applies~~ying~~ an elastic pressure to each side of said guide rail section and is disposed in said guide rail slot section.

In a vacuum cooking pot of the present invention described in claim ~~11~~9, a keep-locking slot and a release-locking slot are formed in said elastic clip, and a protrusion is formed within said guide rail section for coupling with said keep-locking slot or said release-locking slot.

In a vacuum cooking pot of the present invention described in claim ~~12~~10, a gap maintaining piece for providing a gap between the both sides of said guide rail slot section and said elastic clip is formed.

Advantageous Effects of Invention

According to the present invention, there are following effects.

A vacuum function and an overflow prevention function can be implemented with one lid handle by disposing the check valve in the center of the lid handle.

By further forming an arm in the lid handle, three functions such as a vacuum function, an overflow prevention function, and a leg function when erecting the lid can be implemented with one lid handle.

CLAIMS

What is claimed is:

1. A lid for a vacuum cooking pot including:

a lid body;

a slot formed at the edge of said lid body;

a vacuum packing mounted in said slot; and

a lid handle installed in the center of said lid body, wherein said lid handle includes:

a central hole unit disposed on the through-hole formed in the center of said lid body;

a central cap unit coupled with said central hole unit and supported by said lid body; and

a check valve installed inside of said central hole unit.

2. A lid for a vacuum cooking pot according to claim 1, wherein said check valve includes:

an open-close flange disposed on the upper surface of the open-close hole formed in said central hole unit;

a top unit formed on the top of said open-close flange;

a central hole flange disposed under the bottom surface of said open-close hole;

a connecting section connecting said open-close flange with said central hole flange to form a relief path; and

a flange being formed in between said top unit and said open-close flange.

3. A lid for a vacuum cooking pot according to claim 2, wherein the diameter of said flange is greater than that of said open-close

flange but smaller than that of the through-hole of said central cap unit.

4. A lid for a vacuum cooking pot according to claim 3, wherein multiple holes are formed in said flange.

5. A lid for a vacuum cooking pot according to any one of claims 1 to 4, wherein an arm initiated from the one side of said central cap unit and protruding towards the radial direction of said lid body is further formed.

6. A lid for a vacuum cooking pot according to claim 5, wherein a guide piece for guiding steam to upward direction is installed in said central cap unit.

7. A vacuum cooking pot including:

a container;

a lid for opening and closing said container; and

a container handle installed in said container, wherein said lid includes:

a lid body;

a slot formed at the edge of said lid body;

a packing for vacuum mounted inside of said slot; and

a lid handle installed on the center of said lid body, wherein said lid handle includes:

a central hole unit disposed on the through-hole formed in the center of said lid body;

a central cap unit coupled with said central hole unit and supported by said lid body; and

a check valve installed inside of said central hole

unit.

8. A vacuum cooking pot according to claim 7, wherein a lid locking member is further installed in said container handle.

9. A vacuum cooking pot according to claim 8, wherein said lid locking member includes:

a locking slider,

a guide member guiding said locking slider towards radial direction with respect to said container handle; and

an elastic clip mounted in said container handle and determines the position of said locking slider.

10. A vacuum cooking pot according to claim 9, wherein said guide member includes:

a guide rail formed at the bottom surface of said locking slider; and

a guide rail slot section guiding said guide rail section, wherein a said elastic clip for applying an elastic pressure to each side of said guide rail section is disposed in said guide rail slot section.

11. A vacuum cooking pot according to claim 10, wherein a keep-locking slot and a release-locking slot are formed in said elastic clip, and a protrusion is formed within said guide rail section for coupling with said keep-locking slot or said release-locking slot.

12. A vacuum cooking pot according to claim 11, wherein a gap maintaining piece for providing a gap between the both sides of said guide rail slot section and said elastic clip is formed.

CLAIMS

What is claimed is:

1. A vacuum lid for opening and closing a cooking chamber of a vacuum cooking pot including:

a lid body;

a slot formed at the edge of said lid body;

a vacuum packing mounted in said slot; and

a lid handle installed in the center of said lid body, wherein

said lid handle includes:

a central hole unit disposed on a through-hole formed in the center of said lid body;

a central cap unit coupled with said central hole unit and supported by said lid body; and

a check valve installed inside of said central hole unit; and

an arm initiated from the one side of said central cap unit and protruding towards the radial direction of said lid body, so that when the check valve is pulled up the vacuum of the cooking chamber is released.

2. A lid for a vacuum cooking pot according to claim 1, wherein said check valve includes:

an open-close flange disposed on the upper surface of the open-close hole formed in said central hole unit;

a top unit formed on the top of said open-close flange;

a central hole flange disposed under the bottom surface of said open-close hole;

a connecting section connecting said open-close flange with said central hole flange to form a relief path; and

a flange being formed in between said top unit and said open-close flange.

3. A lid for a vacuum cooking pot according to claim 2, wherein the diameter of said flange is greater than that of said open-close flange but smaller than that of the through-hole of said central cap unit.

4. A lid for a vacuum cooking pot according to claim 3, wherein multiple holes are formed in said flange.

5. A lid for a vacuum cooking pot according to any one of claims 1 to 4 wherein a guide piece for guiding steam to upward direction is installed in said central cap unit.

6. A vacuum cooking pot including:

a container provided with a cooking chamber;

a vacuum lid for opening and closing said cooking chamber; and

a container handle installed in said container, wherein

said vacuum lid includes:

a lid body;

a slot formed at the edge of said lid body;

a packing for vacuum mounted inside of said slot; and

a lid handle installed on the center of said lid body, wherein

said lid handle includes:

a central hole unit disposed on the through-hole formed in the center of said lid body;

a central cap unit coupled with said central hole unit and supported by said lid body; and

a check valve installed inside of said central hole unit, wherein

a lid locking member is further provided in said container handle, wherein said lid locking member includes a

locking slider and a guide member guiding said locking slider towards radial direction with respect to said container handle.

7. A vacuum cooking pot according to claim 6, wherein said lid locking member further includes an elastic clip mounted in said container handle and determines the position of said locking slider.

8. A vacuum cooking pot according to claim 7, wherein said guide member includes:

a guide rail formed at the bottom surface of said locking slider; and

a guide rail slot section guiding said guide rail section, wherein said elastic clip applies an elastic pressure to each side of said guide rail section and is disposed in said guide rail slot section.

9. A vacuum cooking pot according to claim 8, wherein a keep-locking slot and a release-locking slot are formed in said elastic clip, and a protrusion is formed within said guide rail section for coupling with said keep-locking slot or said release-locking slot.

10. A vacuum cooking pot according to claim 9, wherein a gap maintaining piece for providing a gap between the both sides of said guide rail slot section and said elastic clip is formed.