Aug. 26, 1930. R. KANIA 1,774,276

LID FOR DOUBLE DOMESTIC BOILERS

Filed April 30, 1928

Fig. 2.

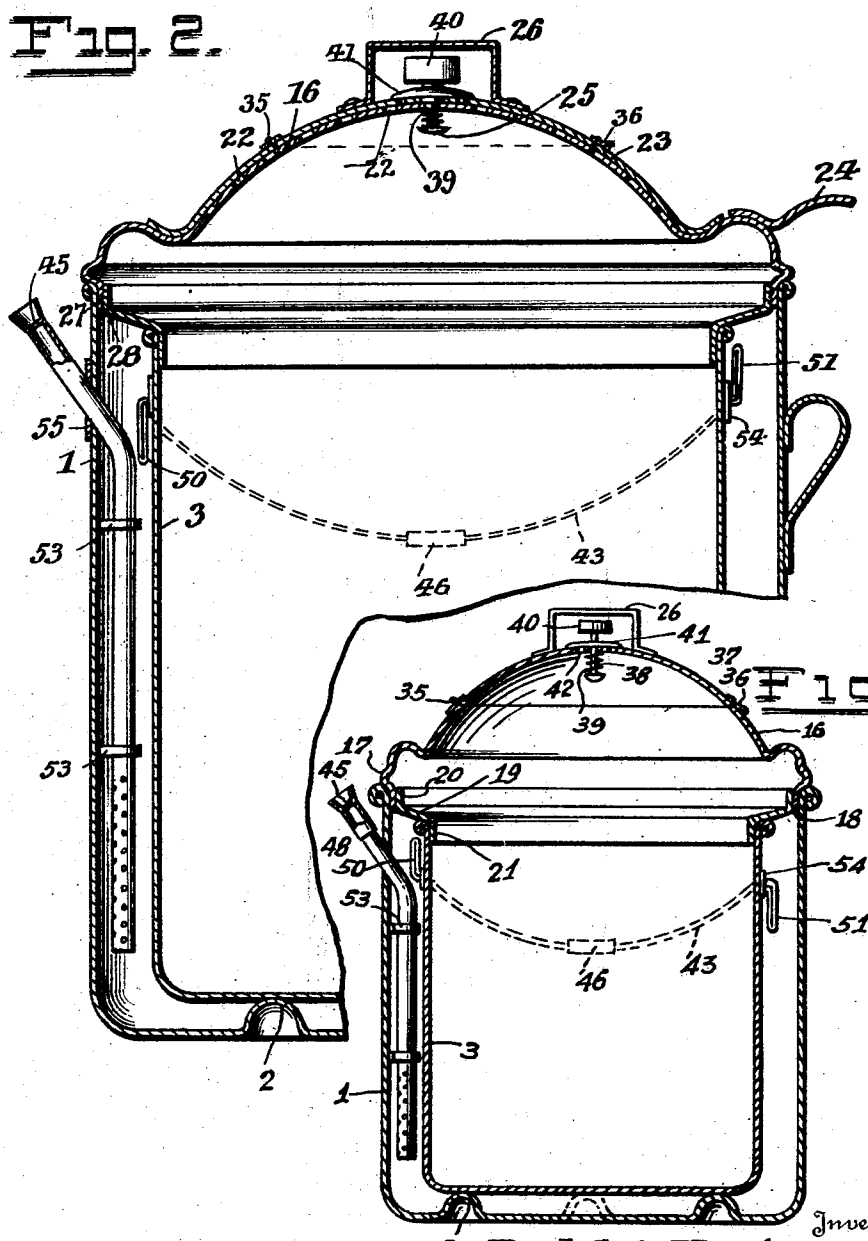


Fig. 1.

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## LID FOR DOUBLE DOMESTIC BOILERS

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This invention relates to lids especially adapted to be used upon double domestic boilers, and it consists in the novel features hereinafter described and claimed.

An object of the invention is to provide a lid of the character stated adapted to be applied to the edge of the outer boiler and which will effectually seal the edge of the outer boiler, the said lid having means for holding the pot which is located within the outer boiler properly spaced therefrom.

A further object of the invention is to provide in a lid of the character stated means for permitting steam to escape from the inner pot when desired.

These and other like objects such as economy in manufacture, durability, etc., are attained by the novel design and combination of parts of disclosure and in which.

In the accompanying drawings:

Figure 1 is a vertical section through a double domestic boiler with my improved lid construction incorporated therein.

Figure 2 is a modified form of the lid.

The double boiler with which the lid is used, consists of an outer boiler body 1 having humps 2 stamped upwardly at its bottom. A pot 3 is adapted to rest upon the humps 2 and is received within the outer boiler body 1 with its side and bottom walls spaced from the side and bottom walls of the said body.

In the form of the invention, as shown in Figure 1, the interior portion of the lid is provided with a dome 16 and about its margins with an annular outstanding bead 17 adapted to rest upon the upper edge of the outer boiler body. The lid is further provided with an annular flange 18 which fits snugly within the upper portion of the boiler body. A ring 19 is provided at its upper edge with a flange 20 which fits snugly within the flange 18 and at its lower edge with a flange 21, which fits snugly within the upper portion of the pot 3.

In the form as shown in Figure 2, the dome portion 16 of the lid is provided with openings 22, and a plate 23 extends over the dome and may close the openings 22. The plate 23 is provided with a handle 24, and the plate is held in close contact with the outer surface of the dome 16 by means of a spring pressed bolt 25 mounted at the center of the lid and located under the handle 26. The peripheral flange of the lid is provided with an internal thread 27 which engages an external thread provided upon a ring 28, the lower portion of which slips into the upper end of the pot 3.

In both forms of the invention, it will be seen that I have provided a lid which effectually seals the upper end of the outer boiler body and the inner pot and also holds the inner pot properly spaced from the outer boiler body in concentric relation. A pipe 29 for permitting the steam to escape may be provided and serve not only for permitting the steam to escape but also as an inlet through which water may be poured when replenishing is necessary.

From the foregoing description of the construction of my improved apparatus, it will be seen that I have provided a simple, inexpensive and efficient means for carrying out the objects of my invention and while I have particularly described the elements best adapted to perform the functions set forth, it is obvious that various changes in form, proportion and in the minor details of construction may be resorted to, without departing from the spirit or sacrificing any of the principles of the invention.

It should also be noted that in each form of the invention, the lid is provided at the top with an opening having at one side a hinge 35 and at the opposite side of the opening a catch 36. A top is pivotally connected with the hinge 35 and is adapted to be secured over the opening in the lid by the catch 36. The top 37 carries the handle 26. A stem 38 passes through the center of the top and a spring 39 bears at one end against the top and at its other end against the stem and serves to hold the stem in a lowered position in the top. A knob 40 is carried at the upper end of the stem above the top and is located under the handle 26. A plate 41 is carried by the stem and is adapted to close over openings 42 provided at the intermediate portion of the top and located under the handle be-

low the knob. The said openings 42 may be arranged in a circle around the stem.

Having described the invention, what is claimed is:

1. A lid for a double boiler comprising a body having means for sealing the edge of the outer boiler member and a flange adapted to fit snugly within the edge of the outer boiler member, a ring separately engaged at its upper edge with the flange of the lid and provided at its opposite edge with a flange adapted to fit snugly within the inner boiler member.

2. A lid for a double boiler comprising a body having means for sealing the edge of the outer boiler member and provided with a flange adapted to fit snugly within the outer boiler member, a ring having a flange at its upper edge adapted to engage the first mentioned flange, said flanges having threads adapted to engage each other, and the ring being provided at its lower edge with a flange adapted to fit snugly within the inner boiler member.

3. In a double boiler construction including inner and outer boiler members, a lid therefor comprising a body having means at its peripheral edge for sealing the edge of the outer boiler member and separable means engaging portions of said lid and inner boiler member to seal the upper edge of the latter and simultaneously cover the space between the boiler members and correspondingly space said boiler members concentrically with relation to one another.

4. In a double boiler construction including inner and outer boiler members, the inner boiler member when nested having its upper peripheral edge in a horizontal plane below the plane of the upper peripheral edge of the outer boiler member, a lid therefor comprising a body having means for sealing the edge of the outer boiler member and provided with a depending annular flange adapted to fit snugly within the outer boiler member, a flat upwardly and outwardly inclined ring member separable from said boiler members and provided at its outer peripheral edge with an upstanding annular flange adapted for separable engagement with the inner wall of the depending flange of said lid, the inner peripheral edge of said ring member being provided with a depending annular flange adapted to engage the inner wall of said inner boiler member to seal the upper edge of the latter and concentrically space said inner boiler member with respect to the outer boiler member.

5. In a double boiler construction including inner and outer boiler members, the inner boiler member when nested having its upper peripheral edge in a horizontal plane below the plane of the upper peripheral edge of the outer boiler member, a lid therefor comprising a body having means for sealing the edge of the outer boiler member and provided with a depending annular flange adapted to fit snugly within the outer boiler member, the inner face of said flange being threaded, a separable flat ring member inclined upwardly and outwardly from its inner to its outer periphery, provided at its outer periphery with an integral upstanding flange, said flange being externally threaded and adapted for threaded engagement with the inner wall of the flange on said lid, the inner periphery of said ring member having an integral depending flange adapted for snug engagement with the inner peripheral wall of the inner boiler member at the upper edge of the latter to seal said inner boiler member and simultaneously space said inner boiler member concentrically with respect to the outer boiler member.

In testimony whereof I affix my signature.

RUDOLPH KANIA.