

987,923.

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UNITED STATES PATENT OFFICE.

LUKE A. SMITH, OF LOS ANGELES, CALIFORNIA.

ATTACHMENT FOR COOKING UTENSILS.

987,923.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, LUKE A. SMITH, citizen of the United States, residing at Los Angeles, in the county of Los Angeles and State of California, have invented certain new and useful Improvements in Attachments for Cooking Utensils, of which the following is a specification.

This invention relates to cooking utensils and has special reference to an attachment to be applied to boilers, or the like.

An object of this invention is to provide a boiler with a water feeding means whereby the vegetables which are boiled are prevented from burning incident to the boiling off of the water from the cooking utensils.

The invention has for another object the provision of an attachment which is adapted for application to practically any form of boiler and to which the water is automatically fed without requiring any attention.

This invention further contemplates the provision of an attachment of this character which is so adjustable that the water level within the boiler may be maintained at practically any desired height within the boiler.

For a full understanding of the invention reference is to be had to the following description and accompanying drawing, in which:—

Figure 1 is a perspective view of the improved apparatus as applied to a boiler. Fig. 2 is a vertical central section through the same, Fig. 3 discloses a slight modification in the attachment as applied to a boiler of different form. Fig. 4 is a detail view of the securing mechanism.

Corresponding and like parts are referred to in the following description and indicated in all the views of the accompanying drawing by the same reference characters.

Referring to the drawing, the numeral 10 designates a boiler which is of cylindrical form and which is open at its upper end. The attachment which forms the subject-matter for this invention comprises a cover 11 which is of common form and which is positioned over the boiler 10 to close the upper end of the same. Concentrically ar-

ranged upon and upwardly extending from the cover 11 is a support which comprises a cylinder 13 open at its opposite ends and provided with an inturned flange 14 formed upon the lower end thereof to hold the support 13 upon the cover 11. The cylinder or support 13 is provided with a handle 12 by means of which the support may be raised from the boiler 10 and the cover 11. Slidably positioned through the support 13 and adapted for vertical adjustment there-through, is a cylindrical receptacle 15 which is closed at its opposite ends and provided adjacent one side and upon the top 16 with an inlet 17, the same being closed by a cap 18, disposed in threaded relation thereon. The opening or the inlet 7 is employed for the purpose of admitting water to the receptacle 15 which is to be fed to the boiler 10. The support is provided with a pawl 19 extending through one side of the support 13 adjacent to the upper extremity thereof, and engaging at its inner end with a series of indentations 15^a in the side of the receptacle 15 to secure the same in a vertically adjusted position within the support. The pawl 19 carries a loop 19^a upon its outer end located above the handle 12, and adjacent to the same, to receive the finger of the operator. The pawl 19 is carried through the outer extremity of a leaf spring 19^b which is secured at its inner end against the support or cylinder 13. The opposite spring 19^b is secured against the cylinder 13 in alignment with the first spring and overlaps at its outer end, the outer face of the first spring. The spring 19^b normally holds the pawl 19 inwardly against the receptacle 15. Centrally depending from the receptacle 15 is a feed-tube 20 passing through the support 13 and loosely through a central opening in the cover 11. The upper end of the tube 20 is rigidly secured in the bottom of the receptacle 15, and is preferably flush at its upper end with the bottom of the receptacle. A valve 21 of conical form is inserted in the upper extremity of the tube 20 and carried upon the lower end of a rod 22 engaging in frictional contact through the top 16 of the receptacle and through a stuff-

ing box 23 which is carried by the cover 16. A handle 24 is positioned upon the upper end of the rod 22 to enable the operation of the same and is preferably formed from wood or other heat non-conducting material. The receptacle 15 is provided with a handle 16^a located centrally upon the top 16 and over the stem 22 so as to limit the upward movement of the valve 21 and to form a means for adjusting the receptacle 15 within the support 13. As is disclosed in Fig. 2 the rod 22 is located centrally of the cover 16 so as to register directly over the upper open end of the feed-tube 20 to permit the registration of the valve 21 with the tube 20. A stem 25 depends from the valve 21 into the feed-tube 20 to insure the registration of the valve 21 therewith when the rod 22 is raised to admit of the escape of water from the receptacle 15.

In the modified form shown in Fig. 3 of the drawing the feed-tube 26 is disclosed as being beveled at its lower end as at 27 to admit of the passage of water from one side thereof so as not to retard the distribution of the same, and is disclosed as extending downwardly through a sleeve 28 centrally positioned within an inner receptacle 29 located concentrically within the boiler 30. The inner receptacle 29 is provided with a perforated bottom 31 through which the water from the tube 26 passes as the sleeve 28 extends upwardly about the tube 26 to a point in proximity to the plane of the upper per edge of the inner receptacle 29. The inner receptacle 29 is employed to insure the circulation of the water within the boiler 30. Lugs 32 depend from the inner receptacle 29 to rest upon the bottom of the boiler to raise the bottom 31 thereof slightly above the bottom of the boiler 30. In this construction, disclosed in Fig. 3, the water passes downwardly through the feed-tube employed in the lower end of the sleeve 28 where it is distributed beneath the bottom 31 and caused to rise through the perforations therein to the level desired. The lower extremity of the feed-tube 20 disclosed in Fig. 2 is beveled inwardly in order to provide an adaptable feeding edge for the water to flow about as it is fed from the tube.

In the operation of the attachment the operator grasps the handle 12 and positions the cover 11 over the boiler 10. The receptacle 15 is now adjusted within the support 13 by means of the pawl 19 to dispose the lower extremity of the feed-tube 20 slightly below the water level within the boiler 10. The rod 22 is now raised to withdraw the valve 21 from the upper end of the feed-tube 20 whereupon the water from the receptacle 15 passes downwardly through the tube 20. As the water is boiled off from the boiler 10,

the water surface therein recedes and permits of the feeding of the water from the receptacle downwardly through the tube 20. In this construction it will be noted that the upper end of the receptacle 15 is sealed whereby the water within the boiler 10 is readily kept at a constant level.

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Having thus described the invention what is claimed as new is:—

1. A cooking utensil including a boiler, a support mounted over said boiler, a receptacle mounted in said support for vertical adjustment therein, a feed-tube depending from said receptacle into said boiler, a rod extending through the upper end of said receptacle, a valve carried upon the end of said rod and engaging within said feed-tube, and a stem depending from said valve for retaining the same in registration with said feed-tube.

2. In combination with a boiler, a cover positioned upon the boiler, a cylindrical support upwardly extending from said cover, a cylindrical receptacle loosely disposed through said support, a pawl carried at one side of said support for engagement with said receptacle to secure the same in adjusted position, and a feed-tube depending from said receptacle and passing through said cover into said boiler.

3. In combination with a boiler, a cover therefor, a support mounted on said cover, a receptacle located in said support for vertical adjustment therein, a feed-tube depending from said receptacle into said boiler, a valve mounted in the upper end of said feed-tube within said receptacle, and a rod carried by said valve extending upwardly through said receptacle to actuate said valve.

4. A cooking utensil including a boiler, a cover upon the boiler having an opening therethrough, an inner receptacle within the boiler having a perforated bottom and a central sleeve, a support carried by the cover, a receptacle mounted on the support, a tube depending from the receptacle through the cover and into the sleeve, and a controlling

valve for coöperation with the depending tube.

In testimony whereof I affix my signature in presence of two witnesses.

LUKE A. SMITH. [L. S.]

Witnesses:

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Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."
