April 1, 1924. 1,488,801

G. ALBANESE

TOWEL STERILIZER

Filed Nov. 10, 1922

Fig. 1.

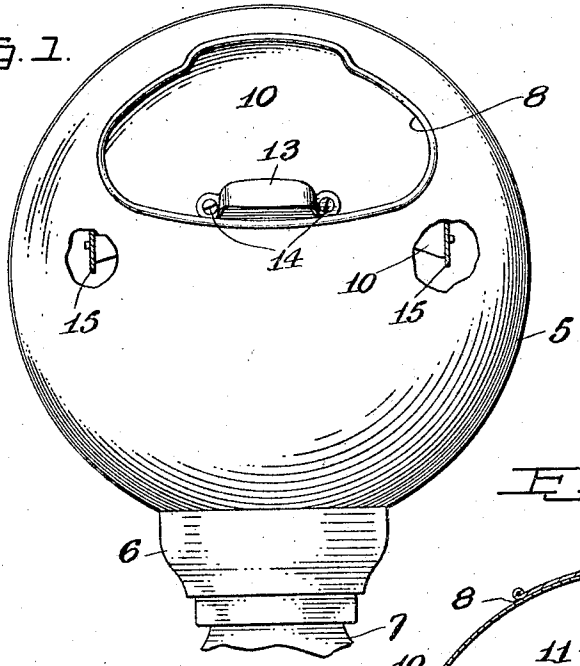


Fig. 3.

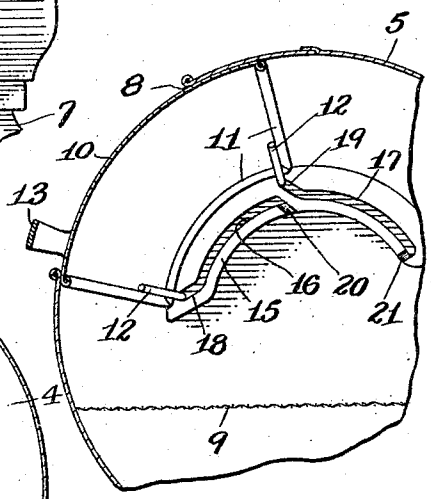


Fig. 2.

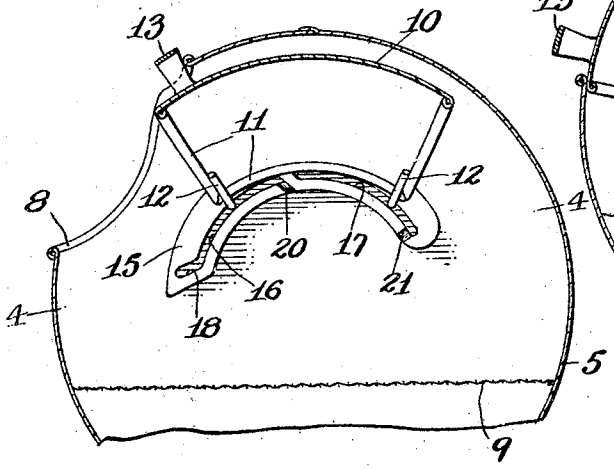
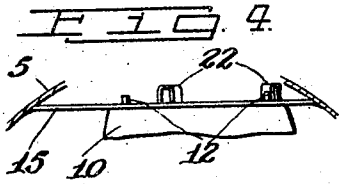


Fig. 4.



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UNITED STATES PATENT OFFICE.

GAETANO ALBANESE, OF BROOKLYN, NEW YORK.

TOWEL STERILIZER.

Application filed November 10, 1922. Serial No. 599,981.

To all whom it may concern:

Be it known that I, GAETANO ALBANESE, a citizen of the United States, and residing at Brooklyn, in the county of Kings and State of New York, have invented certain new and useful Improvements in Towel Sterilizers, of which the following is a specification, such as will enable those skilled in the art to which it appertains to make and use the same.

This invention relates to towel sterilizers, and particularly to apparatus of this class designed for use by barbers and others in the sterilization of towels and the like, and particularly to an improved door construction for apparatus of this class; and the object of the invention is to provide a door construction which is so mounted and operated as to quickly and freely permit of the opening thereof, or the movement thereof into an open position as well as to provide means whereby the movement of the door into a closed position will operate to form a tight closure for the door opening to prevent the passage of steam outwardly through the door opening when the apparatus is in operation, and the door is in its closed position; and with these and other objects in view, the invention consists in a door construction for sterilizers of the class and for the purpose specified, which is simple in construction, and which is constructed and operated as hereinafter described and claimed.

The invention is fully disclosed in the following specification, of which the accompanying drawing forms a part, in which the separate parts of my improvement are designated by suitable reference characters in each of the views, and in which:—

Fig. 1 is a front view of the top portion of a towel sterilizer, showing my improved door construction.

Fig. 2 is a transverse section through the construction shown in Fig. 1 and showing the door in an open position.

Fig. 3 is a view similar to Fig. 2 but showing the door in a closed position; and,

Fig. 4 is a partial section on the line 4—4 of Fig. 2.

In the drawing I have shown a part of a towel sterilizing apparatus and in the drawing, 5 represents the head or steam chamber of the apparatus, 6 a contracted neck which places the steam chamber 5 in communication with the steam generator therebeneath, a part of which indicated at 7 in Fig. 1 of the drawing. In the construction shown the steam chamber 5 is in the form of a cylindrical casing and is provided in the front upper face thereof with a door opening or aperture 8 to permit the placement of towels or the like into the steam chamber 5 and upon a perforated or openwork shelf member 9, as well as the removal of towels therefrom in the usual manner.

The above described construction forms no specific part of my invention and is shown and described for the purpose of illustrating one use thereof, and in practise, I provide a door member 10 which is arc-shaped in form in longitudinal and cross section, and the side and end edges of which are preferably reinforced by bead members or the like 11, and the opposite sides of the door member 10 are provided with outwardly directed pins 12, and said door member is also provided with a handle 13 detachably connected with the door by screws or the like 14, and by means of which the door may be manipulated.

Mounted within the steam chamber 6 and on the opposite side walls thereof with reference to the door opening 8 are two arc-shaped track members 15 of the construction shown in Figs. 2 and 3 of the drawing and the members 15 are each provided with two elongated arc-shaped apertures 16 and 17 which extend into offset portions 18 and 19 at one end, and which open outwardly at their other ends as shown at 20 and 21 by bending the material of the members 15 backwardly as shown at 22 in Fig. 4 of the drawing.

In the use of my improved door construction, it will be understood that when the door is in a closed position, it is held by its own weight firmly against the inner face of the steam chamber 5 or the casing forming said steam chamber about or around the aperture 8 as clearly shown in Fig. 3 of the drawing, and in this position of the door, the pins 12 are in the extensions 18 and 19 of the apertures 16 and 17. In opening the door 10 the handle 13 is grasped by the hand of the operator, and the door is moved upwardly, in which operation the door first moves inwardly in the extensions 18 and 19 and then upwardly in the apertures 16 and 17. The inward movement of the door immediately frees the outer face of the door from the inner face of the casing forming the steam chamber 5 to prevent any friction be-

tween these parts or to prevent the scratching or marring of the outer face of the door, which is usually nickel-plated, silver plated, or treated in like manner. By moving the door inwardly in the manner above set out, I also provide a free movement for said door without any friction whatever, and it will be understood that the door will normally support itself in its open position, and a slight touch or downward movement of the door will cause the door to drop by gravity into its closed position, and to seal the opening or aperture 8 of the steam chamber.

By providing the apertures 20 and 21 which communicate with the aperture 16 and 17, the door 10 may be removed from the casing by removing the handle member 13 for the purpose of cleaning, repairing, or repolishing said door member or the parts cooperating therewith.

It will be understood that my invention is not necessarily limited to the use of my improved door construction in connection with the apparatus herein shown and described, nor am I necessarily limited to the specific form and construction of the door herein shown and described, and various other changes in and modifications of my improved door construction may be made within the scope of the appended claims without departing from the spirit of my invention or sacrificing its advantages.

Having fully described my invention, what I claim as new and desire to secure by Letters Patent, is:—

1. A sterilizer of the class described, comprising a casing provided with a door opening, a door mounted in said casing and adapted to control said door opening, and means within said casing for mounting said door to impart thereto a circumferential and radial movement.

2. A sterilizer of the class described, comprising a casing provided with a door opening, a door mounted in said casing and adapted to control said door opening, and means within said casing for mounting said door to impart thereto a circumferential and radial movement to provide a tight closure for the door opening and to permit of the free movement of said door into an open position.

3. A sterilizer of the class described, comprising a casing provided with a door opening, a door mounted in said casing and adapted to control said door opening, means within said casing for mounting said door to impart thereto a circumferential and radial movement to provide a tight closure for the door opening and to permit of the free movement of said door into an open position, and a handle member on said door and extending through said door opening.

4. A sterilizer of the class described, comprising a casing provided with a door opening, a door mounted in said casing and adapted to control said door opening, and means within said casing for supporting and guiding said door in its movement to permit of the movement thereof transversely of the door opening and inwardly and upwardly thereof.

5. A sterilizer of the class described, comprising a casing provided with a door opening, a door mounted in said casing and adapted to control said door opening, and means within said casing for supporting and guiding said door in its movement to permit of the movement thereof transversely of the door opening and inwardly and upwardly thereof, whereby in the closed position of the door, the same is held in firm contact with the casing about said door opening.

6. A sterilizer of the class described, comprising a casing provided with a door opening, a door mounted in said casing and adapted to control said door opening, and means within said casing for supporting and guiding said door in its movement to permit of the movement thereof transversely of the door opening and inwardly and upwardly thereof, whereby in the closed position of the door, the same is held in firm contact with the casing about said door opening, and whereby in the movement of the door into open or closed positions, the same is free from and out of contact with said casing.

7. A sterilizer of the class described, comprising a cylindrical casing provided with a door opening, a door adapted to control said door opening, arc-shaped track members on the opposite sides of the casing with reference to the door opening therein, said track members being provided with elongated apertures provided at one end thereof with angular extensions, and said door member being provided at its opposite sides with two projecting members adapted to operate in the apertures of said track members to permit of a circumferential and radial movement of said door member in said casing.

8. A sterilizer of the class described comprising a cylindrical casing provided with a door opening, a door adapted to control said door opening, arc-shaped track members on the opposite sides of the casing with reference to the door opening therein, said track members being provided with elongated apertures provided at one end thereof with angular extensions, said door member being provided at its opposite sides with two projecting members adapted to operate in the apertures of said track members to permit of a circumferential and radial movement of said door member in said casing, and means whereby said door member may be removed from the casing.

9. A sterilizer of the class described, comprising a cylindrical casing provided with

a door opening, a door adapted to control said door opening, arc-shaped track members on the opposite sides of the casing with reference to the door opening therein, said track members being provided with elongated apertures provided at one end thereof with angular extensions, said door member being provided at its opposite sides with two projecting members adapted to operate in the apertures of said track members to permit of a circumferential and radial movement of said door member in said casing, means whereby said door member may be removed from the casing, and said door member being provided with a knob.

10. A sterilizer of the class described, provided with a cylindrical casing forming the steam chamber thereof, said casing being provided with an aperture opening outwardly therethrough, a door for controlling said aperture, the inner faces of the casing being provided on opposite sides thereof with reference to the aperture therein, with arc-shaped track members having elongated arc-shaped apertures, having at one end thereof angular extensions, and said door member being provided on the opposite sides thereof with projecting members which are adapted to extend into and operate in the apertures of said track members to permit of the movement of said door member transversely of the aperture of said casing and inwardly and outwardly thereof.

11. A door construction of the class described adapted to be mounted in connection with a suitable support to control a door opening in said support, means involving tracks or runways mounted on one face of the support for supporting and guiding said door to permit of a combined movement thereof transversely of and toward and from the door opening, and whereby in the operation of closing the door the tracks or runways will permit of the automatic movement of the door into firm engagement with the support around the door opening.

12. A door construction of the class described adapted to be mounted within a cylindrical support provided with a door opening, means within the support for supporting and guiding the door to permit of a combined movement thereof transversely of and toward and from the door opening and whereby in the operation of closing the door the same will be automatically moved into firm engagement with the support around the door opening.

In testimony that I claim the foregoing as my invention I have signed my name this 8th day of November 1922.

GAETANO ALBANESE.