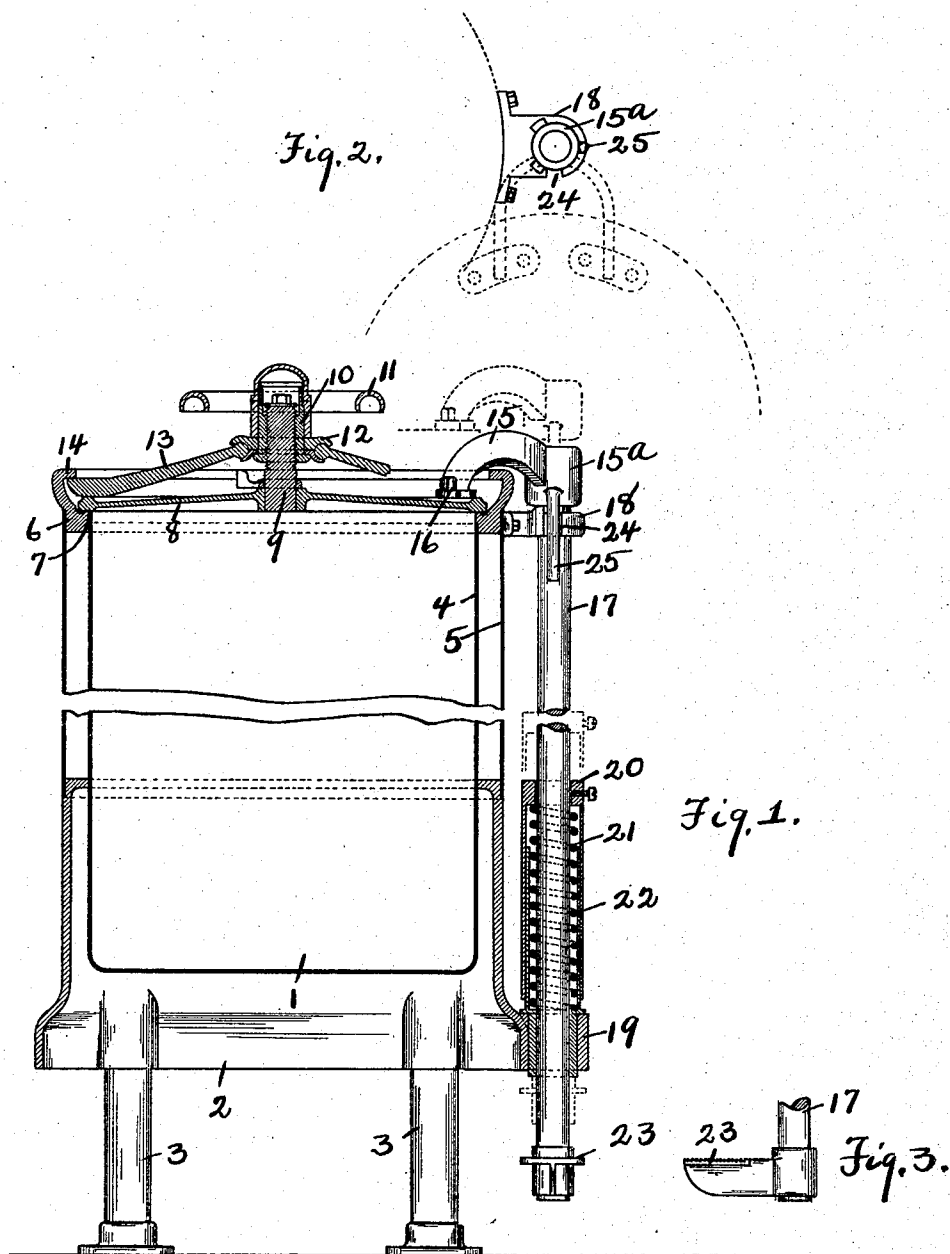


W. A. WILEY.  
STERILIZER.  
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1,188,517.

Patented June 27, 1916.



Witnesses  
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# UNITED STATES PATENT OFFICE.

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## STERILIZER.

1,188,517.

Specification of Letters Patent.

Patented June 27, 1916.

Application filed August 27, 1914. Serial No. 858,830.

*To all whom it may concern:*

Be it known that I, WILLIAM A. WILEY, a citizen of the United States, residing at Erie, in the county of Erie and State of Pennsylvania, have invented new and useful Improvements in Sterilizers, of which the following is a specification.

This invention relates to sterilizers and consists in certain improvements in the construction thereof as will be hereinafter fully described and pointed out in the claims.

The object of the invention is to provide convenient means for handling the cover of sterilizers and is particularly adapted in its preferable form to a vertically arranged sterilizing chamber. With chambers of this class it is desirable to have means whereby the cover may be conveniently lifted from the opening of the chamber and swung out of the way. This should be accomplished with as little handling of the parts as possible.

The invention is illustrated in the accompanying drawings as follows:—

Figure 1 is a central vertical section through the sterilizer. Fig. 2 a plan view of the mounting. Fig. 3 a side view of the operating pedal.

1 marks the sterilizing chamber, 2 the base for the chamber, 3 the legs on which the base is mounted, 4 the inner shell surrounding the chamber and 5 the outer shell forming the double shell of the chamber 1. A ring 6 forms a closure for the space between the shells 4 and 5 and has a cover seat 7 surrounding the opening of the chamber.

The cover 8 forms a closure on the seat 7. It is provided with the screw threaded stud 9 on which a nut 10 is mounted. A handle 11 is provided for operating the nut and the head 12 is actuated by the nut. Radial arms 13 extend from the head 12 and are fulcrumed under a flange 14 on the ring 6. These radial locking arms 13 operate in a well known manner and are used for forcing the cover to its seat.

It will be observed that to remove the cover, it is necessary first to displace the radial arms 13, and then to lift the cover to the position shown in dotted lines in Fig. 2. Arms 15 are secured to the cover by screws 16. These arms are secured to a head 15<sup>a</sup> and the head 15<sup>a</sup> is mounted on a rod 17, the rod being arranged at the side of the chamber 1 and the axis of the rod being par-

allel to the axis of the chamber. The rod is mounted in a bracket 18 secured to the ring 6 and the bracket 19 secured to the base 2. The rod is free to slide in these brackets and also to turn therein when lifted. A collar 20 is fixed on the rod 17 and a spring 21 is coiled around the rod and arranged between the collar 20 and the bracket 19. This spring has sufficient strength to maintain the cover in the upper position, in other words, has sufficient strength to lift the cover when the radial arms 13 are released. The spring is housed in the telescoping shell 22. A pedal 23 is arranged on the bottom of the rod 17 so that when the cover is brought into register with the chamber opening the cover may be forced down to its seat by placing the foot on the pedal 23. It is desirable to prevent this downward movement of the cover except when in position to be brought to its seat. Where this is done, the joint surface can only be brought into contact with the seat and injury of the joint is, therefore, prevented. To accomplish this purpose, I provide a slot 24 in the bracket 18 and arrange a pin 25 on the head 15<sup>a</sup>. When the cover is in proper position to register with the seat, the pin 25 is in register with the slot 24 and the cover can be moved down to position. When, however, the cover is swung to either side, the pin 25 is out of register with the slot 24 and prevents an axial movement of the rod 17 and also an axial movement of the cover.

In operating the device, the operator releases the radial arms, the cover springs up to its upper position and it is only necessary to swing it around to fully expose the sterilizing chamber. To close the chamber, the cover is swung to a position in register with the opening, the foot is placed on the pedal 23 and the cover forced down to its seat. The levers 13 are then tightened so as to close the joint.

What I claim as new is:—

1. In a sterilizer, the combination of a sterilizing chamber having a cover seat surrounding the opening; a rod slidingly and pivotally mounted adjacent to the chamber; a cover mounted on the rod and adapted to be guided by the rod to said seat and to swing on the axis of the rod to expose the sterilizing chamber; a spring arranged on said rod adapted to lift the cover; and a pedal on said rod for seating the cover.

2. In a sterilizer, the combination of a sterilizing chamber having an opening surrounded by a cover seat; a cover operating on said seat and moving to and from said  
5 seat in an axial direction relatively to the chamber; means for locking the cover on the seat to form a joint; a rod having its axis parallel to the axis of the chamber and slidingly and pivotally mounted adjacent to the  
10 chamber; arms connecting the rod with the cover; means for locking the rod against pivotal movement except when the cover is

in register with its seat; a spring surrounding the rod and adapted to raise the cover from its seat when released; and a pedal on  
15 the rod.

In testimony whereof I have hereunto set my hand in the presence of two subscribing witnesses.

WILLIAM A. WILEY.

Witnesses:

B. M. HARTMAN,  
M. B. LOPUS.

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