

No. 861,469.

PATENTED JULY 30, 1907.

E. KRONMAN.  
STERILIZING APPARATUS.  
APPLICATION FILED AUG. 25, 1906.

Fig. 1.

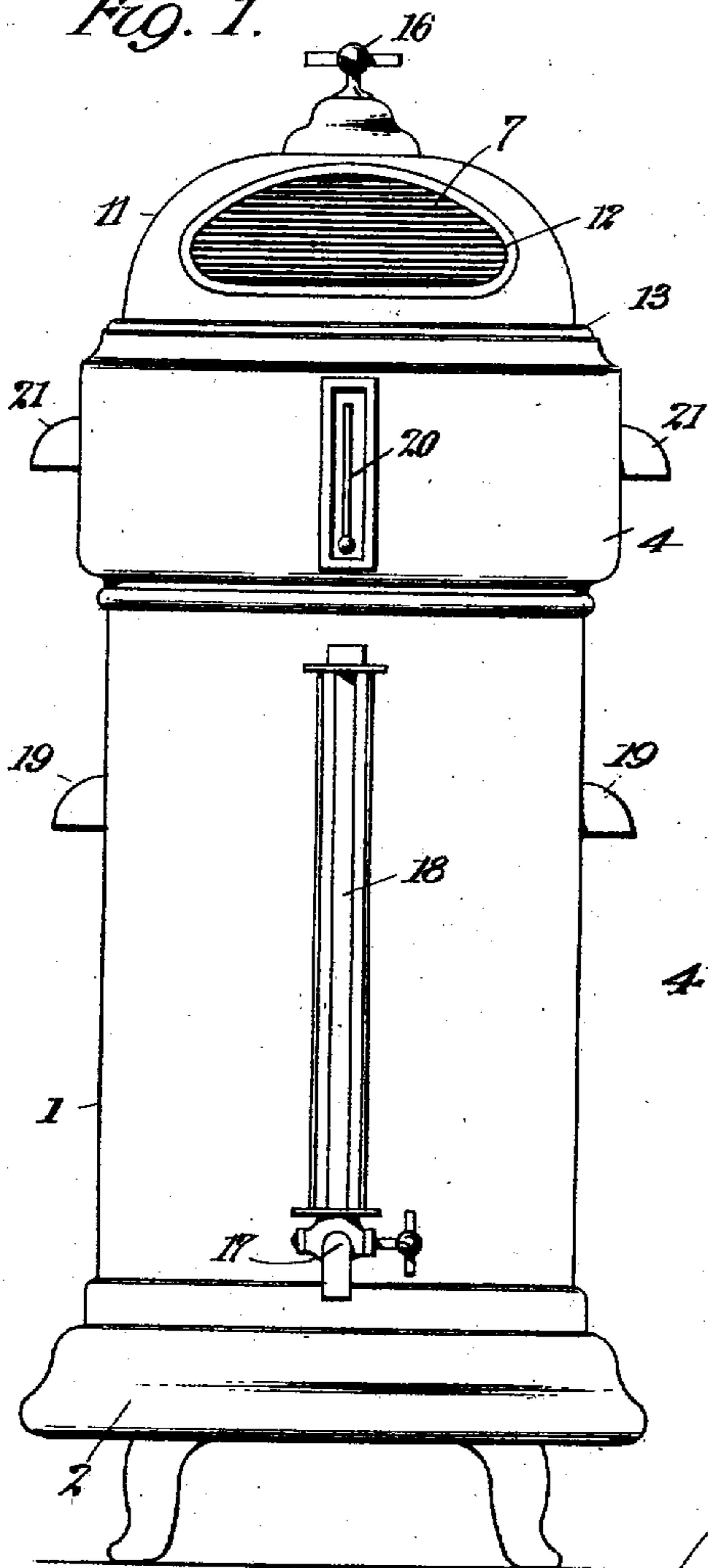


Fig. 2.

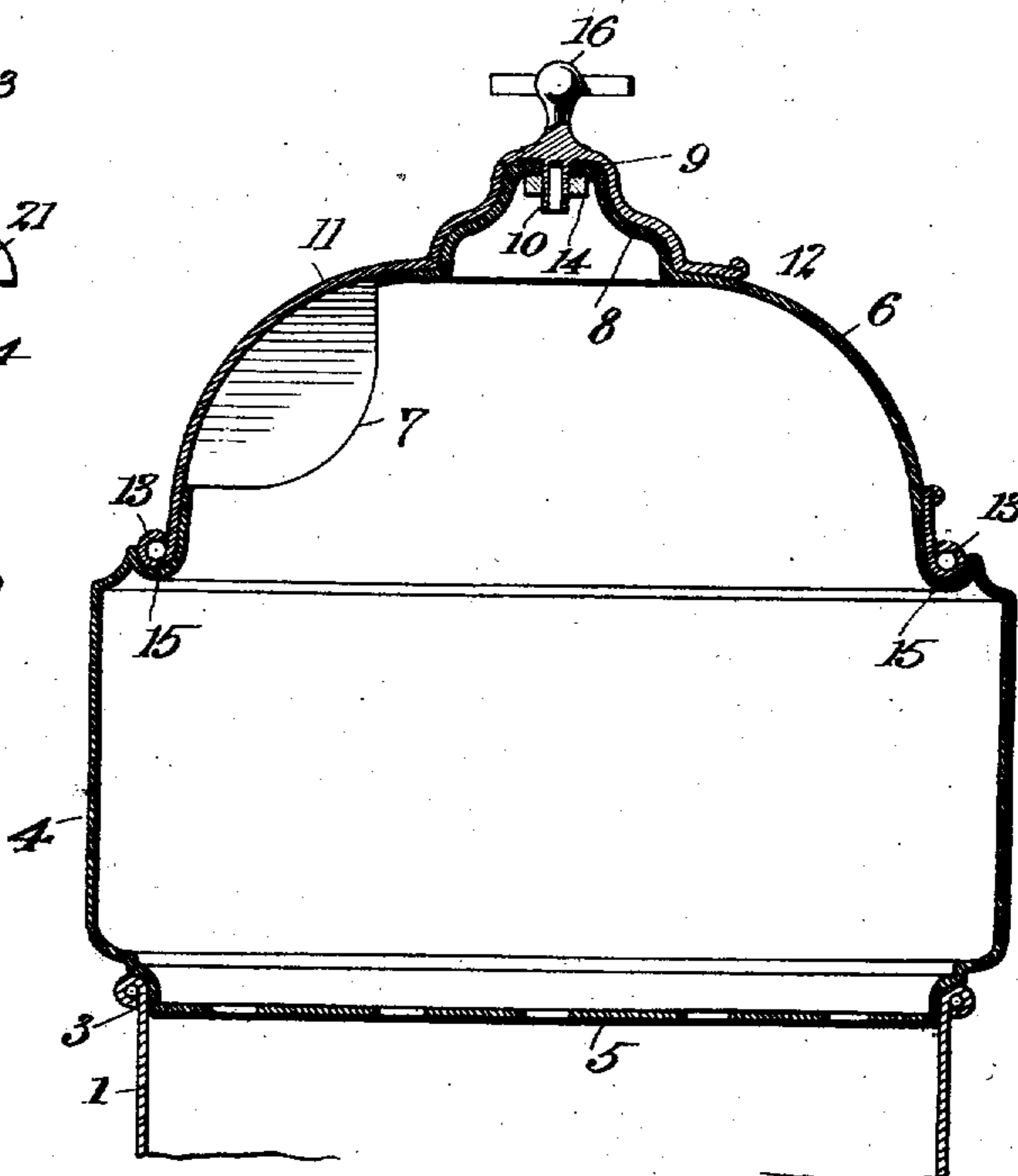
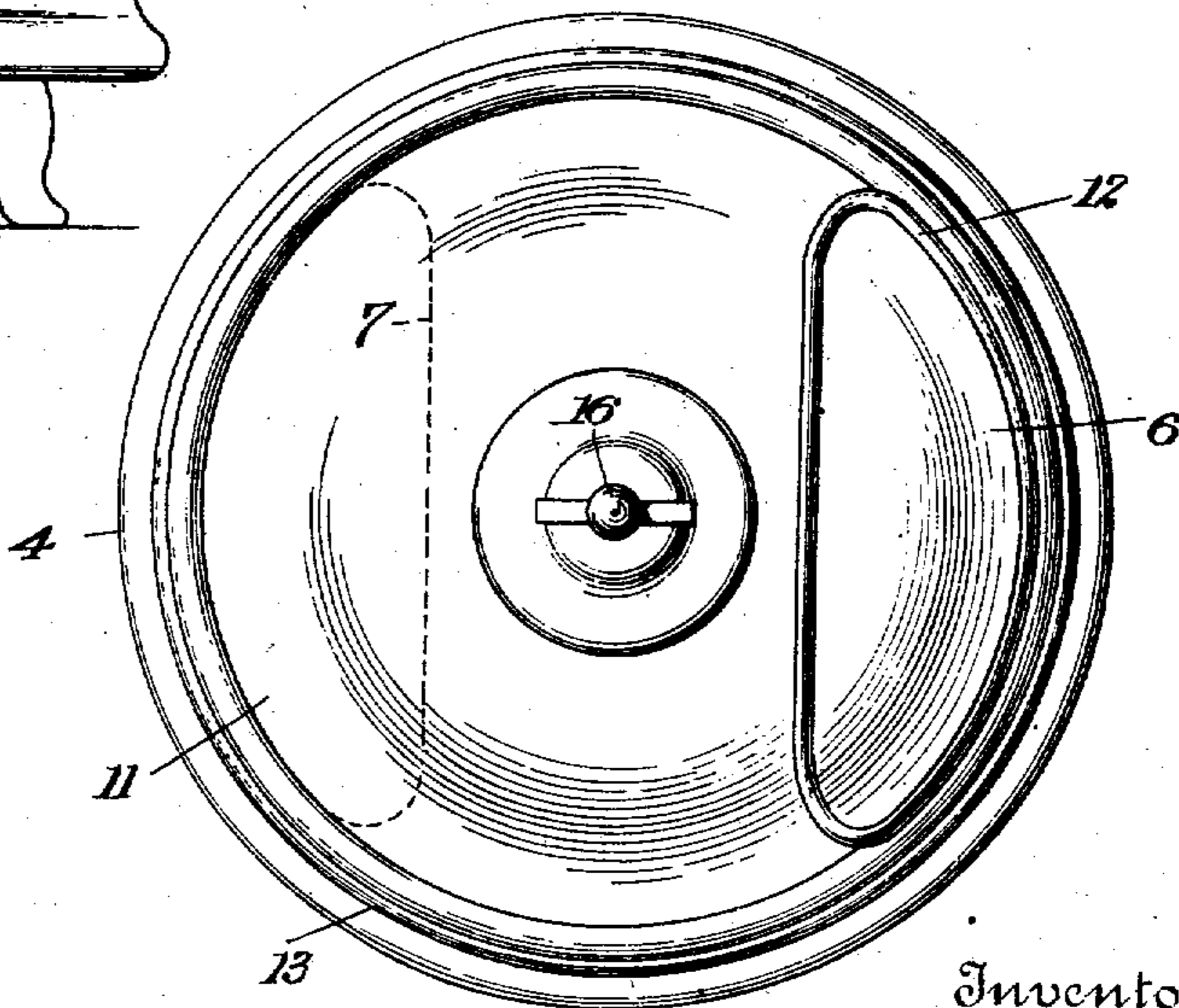


Fig. 3.



Witnesses  
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# UNITED STATES PATENT OFFICE.

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## STERILIZING APPARATUS.

No. 861,469.

Specification of Letters Patent.

Patented July 30, 1907.

Application filed August 25, 1906. Serial No. 332,045.

*To all whom it may concern:*

Be it known that I, EDWARD KRONMAN, a citizen of the United States, residing in the borough of Manhattan, New York city, county and State of New York, have invented certain new and useful Improvements in Sterilizing Apparatus, of which the following is such a full, clear, and exact description as will enable any one skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, forming part of this specification.

My invention relates to apparatus for sterilizing articles and in which the articles to be treated are confined in a closed compartment while being subjected to the sterilizing fluid or vapor.

The present improvements are particularly well adapted for sterilizing apparatus used by barbers, surgeons and dentists and the particular objects of the invention are to provide a sterilizing device having the sterilizing compartment so constructed that it can be readily opened and closed and at the same time be tightly and securely sealed when closed, whereby the escape or leakage of the sterilizing fluid or gas, is prevented.

With these and other objects in view, my invention consists in the various novel and peculiar arrangements and combinations of the several different parts of the apparatus, all as hereinafter fully set forth and then pointed out in the claims.

I have illustrated a type of my invention in the accompanying drawings, wherein:—

Figure 1 is a front view of a portable sterilizer provided with my improved top or dome, which is shown as open to give access to the interior thereof. Fig. 2 is an enlarged view of the upper part of the apparatus, shown in central vertical section and with the cover thereof in closed position. Fig. 3 is an enlarged top-plan view of the apparatus with the cover in closed position.

Referring to the drawings, in which like numbers of reference designate like parts throughout, 1 is a cylindrical steam-chamber having a base 2, and beneath which the heat may be applied for generating steam in the said chamber 1. The upper end of the body 1, is open and receives within it the reduced part 3 of bottom of the sterilizing compartment 4, which is a drum-shaped body having the usual perforated bottom 5 for the passage of the steam or other sterilizing vapor. The top of the compartment 4 is formed with a dome or concavo-convex shaped part 6, having a lateral opening 7, located at one side and between the top or apex of the dome and the base thereof. The opening 7 is for the purpose of giving access to the interior of the dome in order to place the articles therein

to be sterilized and to remove the same therefrom. The central portion of the dome 6, is made with a raised and somewhat ornamental part 8, the center of which is formed with a perforation 9, for receiving a stud or shaft 10, which depends from the center of the interior of the dome-shaped cover 11, which is of a corresponding shape to the dome 6, and is placed over the same making a snug sliding fit therewith, as clearly shown in the drawings.

The rotary cover 11, is formed with a lateral opening 12, in its side and at such a point thereon as to correspond with the relative location of the opening 7, in the dome, so that the two said openings 7 and 12, may completely register with each other when the cover is turned angularly on its axis 10. It will be noted that the opening 12 in the cover is a considerable distance from its lower edge 13, and that such opening being the only one in the cover, the steam or sterilizing vapor has practically no chance of escaping or leaking from the sterilizing chamber 4, when the cover is turned so that its opening 12, is away from the opening 7, in the dome. This is particularly true when the cover is turned through a half circle, so as to place its opening 12, diametrically opposite to the opening 7, for in either case there is an extended area of contact between the two surfaces of the dome and cover which acts effectually to seal the joint between the two, the cover being held down in place by means of a nut 14, which is mounted on screw-threads on the stud or shaft 10. The nut 14, is accessible through the opening 7, of the dome, when the cover opening 12, registers therewith, as shown in Fig. 1.

The lower edge 13 of the cover 11, is suitably shaped with a roll or bead and fits in an upwardly-opening groove 15, formed upon the exterior of the body 4. This sliding joint also serves to render the turning of the cover smoother and to still further seal the moving part against leakage of steam or vapor.

A handle 16 is secured centrally to the exterior of the cover 11, and being thus located coincident with the axis of motion of the cover, permits the same to be turned more smoothly and without danger of tipping over the entire apparatus.

The dome 6, as well as its correspondingly shaped rotary cover 11, are both made from suitable metal spun in the desired shape and this is an advantage in this class of apparatus.

The body 1 of the steam chamber is shown as being provided with a faucet 17, for drawing hot water from the same, and a water-gage 18, and side handles 19 for lifting the entire apparatus. The body 4, of the sterilizing compartment, which is detachable, is provided with a thermometer 20, and side handles 21, for detaching and removing such body when desired.

From the foregoing description the operation of the apparatus will be readily understood. When the steam is generated in the part 1, any article placed in the closed sterilizing compartment 4, will be acted  
5 upon by such steam and thereby sterilized in the manner well-known. My improved form of apparatus, will be found particularly adapted for use by barbers, surgeons and dentists. Of course, the sterilizing may be done by the use of hot-air in a manner well-known,  
10 and it will be understood that my improvement may be used in conjunction with any of the well-known forms of sterilizers. As the dome and its sliding cover, are made of spun-metal, the shape and ornamentation thereof may be varied to suit the taste, and in steril-  
15 izers of large size, these parts are of a light weight as compared with castings.

Having thus described my invention what I claim and desire to secure by Letters Patent is:

A sterilizing chamber comprising a drum-shaped body provided with a foraminated bottom on which the articles  
20 to be sterilized may rest, a dome shaped top having a raised bulged part at its apex, and having an opening for the insertion and removal of the articles, a rotary cover shaped to fit the said top and entirely surrounding it, and having a raised apex nesting with and closely fitting over  
25 that of the top and provided with an opening to register with that of the top and a pivot stud extending from the apex of the cover down through the apex of the top of the chamber, substantially as set forth.

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

EDWARD KRONMAN.

Witnesses:

WILLIS FOWLER,  
ISIDOR BLICKMAN.