

No. 646,481.

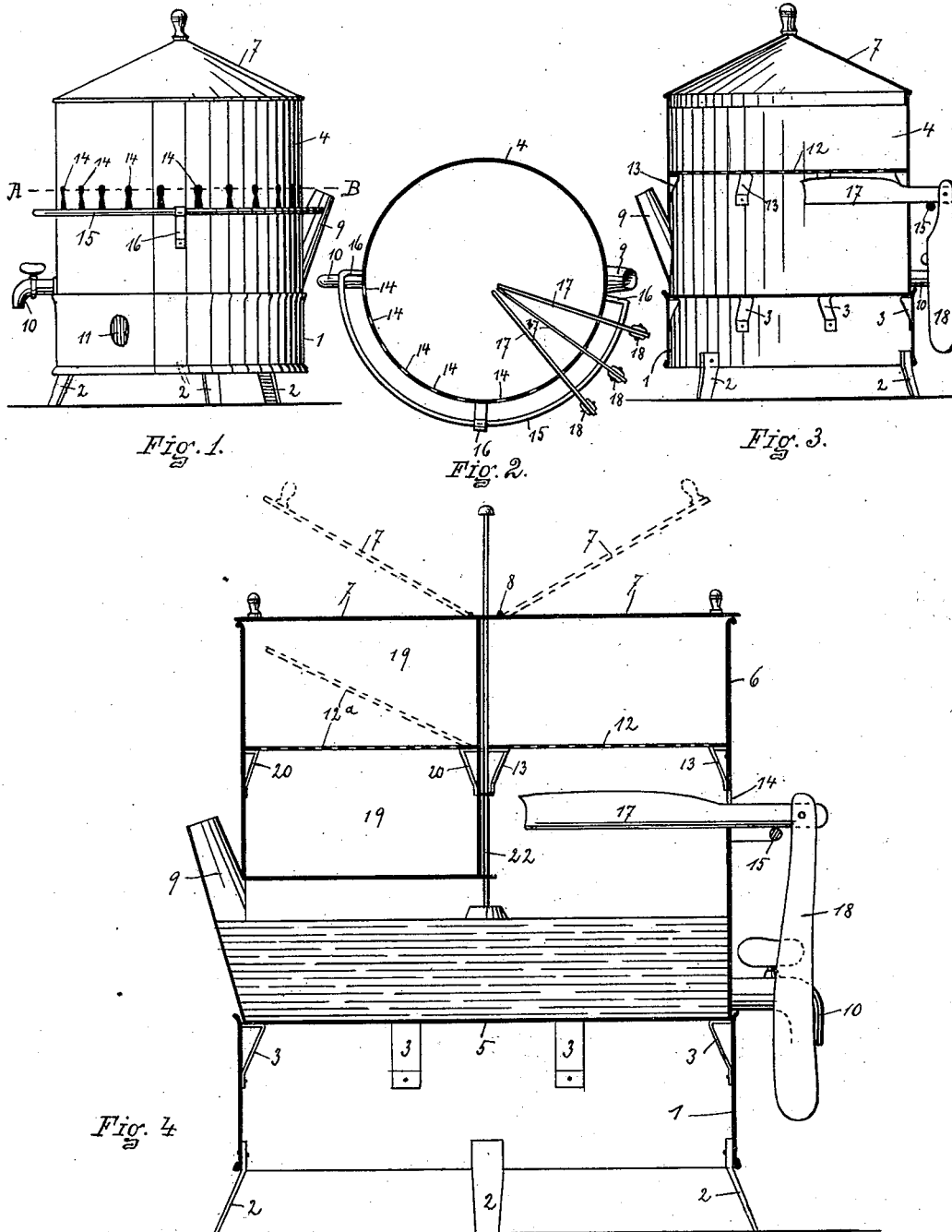
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W. J. WINCHEL & A. E. AUDAS.

STERILIZER FOR RAZORS, &c.

(Application filed Jan. 23, 1899.)

(No Model.)



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# UNITED STATES PATENT OFFICE.

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## STERILIZER FOR RAZORS, &c.

SPECIFICATION forming part of Letters Patent No. 646,481, dated April 3, 1900.

Application filed January 23, 1899. Serial No. 703,035. (No model.)

*To all whom it may concern:*

Be it known that we, WILLIAM J. WINCHEL and ABNER E. AUDAS, citizens of the United States of America, and residents of Rome, Oneida county, New York, have invented certain new and useful Improvements in Barbers' Sterilizers, of which the following is a specification.

Our invention relates to a barber's sterilizer; and it consists in the mechanism herein-after pointed out and claimed.

In the drawings, Figure 1 is a side elevation; Fig. 2, the horizontal section of line A B of Fig. 1 looking downward, the diaphragm-plate being removed. Fig. 3 is a vertical central section of Fig. 1. Fig. 4 illustrates a modified construction.

Having described our invention by the figures illustrated in the drawings, we will now proceed to describe it more minutely, and in such description similar numerals refer to corresponding parts in the several views.

We provide base-section 1, preferably mounted on legs 2. On the inside of base 1 we provide stationary supporting-brackets 3 for supporting on the stationary brackets sterilizing-tank 4, provided with metal bottom 5, metal sides 6, and removable top 7. In Figs. 1 and 3 the movable top is in one piece, while in Fig. 4 the top consists of two pieces hinged at the center cross-piece 8, Fig. 4, so that they may open and stand in a vertical position or one cover may turn over onto the other at the will of the operator.

The sterilizing-tank should be made watertight in its bottom portion, which may be filled through nozzle 9 and the water withdrawn through stop-cock 10 for use in the ordinary barber shop. The tank can be removed from the base portion for cleansing or other purposes. Underneath the base of the tank heat is applied by gas, kerosene, coal, or any other means of communicating heat. In the wall of the base we have provided openings 11, Fig. 1, for lighting gas or oil burners under the tank. In the top portion of the tank above the base we provide a perforated diaphragm-plate 12, (illustrated in Figs. 3 and 4,) through which heated steam is permitted to pass. This diaphragm-plate is supported on stationary brackets 13 13 and is arranged to be removable for the purpose of

cleansing. The chamber above the diaphragm-plate is to be used for sterilizing barbers' cups, and the space below the diaphragm-plate over the heated water is used for sterilizing the blades of barbers' razors.

To sterilize the blades of barbers' razors by heated steam or heated air, we provide a series of openings 14, the series of openings being made, preferably, horizontal around the tank below the diaphragm-plate immediately over the heated water or heated air, as the case may be. These incisions in the sides of the wall or top of the tank diverge in wedge-shaped lines outward from their horizontal centers, as best illustrated in Fig. 1, so that the horizontal center of each opening at the point where the lines come nearest together will fit the razor between the back and cutting edge and hold the same in position, so the cutting edge of the razor will not come in contact with the metal either in inserting the razor-blade or in withdrawing the same. To hold the razor in the proper place when inserted through opening 13, we provide a rest located in substantially the same horizontal plane of the openings in the wall of the tank, which rest 15 is best illustrated in Fig. 2, which in this instance is a wire supported in stationary brackets 16 16 and sufficient distance away from the periphery of the tank to form a rest, so that the handle of the razor will be removed from the heat, and the blade of the razor is sterilized by the heat inside of the tank. A rest may be provided inside of the tank. The position of the razor when being sterilized is well illustrated in Figs. 3 and 4. 17 represents the blade of the razor, and 18 represents the handle in the position in which it will be when the blade of the razor is inserted through incisions or openings 14 through the wall of the tank.

In Fig. 4 we show a tank of a modified construction. This tank differs from the other only in the fact that it has a hot-air compartment 19, which in this instance is divided with diaphragm-plate 12<sup>a</sup>, which is supported in the chamber on stationary brackets 20 and is made removable through lid 7. We provide this hot-air chamber for sterilizing the razor-strops. The hot air is communicated to it from the hot water below the chamber.

For the purpose of indicating the quantity

of water in the bottom of the tank we provide float 21, carrying stem 22, which extends above the lid for indicating the quantity of water at all times in the tank. It is obvious  
 5 that the hot-air compartment may be heated by any well-known method and may be used for sterilizing strops, cups, or razors themselves, (illustrated in the same figure, where the razor is shown inserted through the open-  
 10 ings 14.)

By the arrangement of the parts herein shown and described we combine in a single tank complete opportunity for a barber to sterilize not only his razors, but cups, strops,  
 15 brushes, &c., at the completion of the shaving of each individual, thereby preventing the communication of diseases from germ-poisoning in the operation of shaving, and at the same time furnish an abundance of hot  
 20 water for the use of the barber in the ordinary practice in his shop.

Having described our invention, what we claim as new, and desire to secure by Letters Patent, is—

25 1. A sterilizing-tank having a water-tight heatable compartment with a series of partially-wedge-shaped openings through the wall of the tank for inserting a razor-blade above the water-line, the openings being so  
 30 arranged that the cutting edge of the razor when inserted in the openings will not engage with the wall of the opening, combined with a rest outside of the openings through the walls of the tank in substantially the  
 35 same plane as the openings for supporting the razor-blade and handle of the razor, for the purposes stated.

2. A sterilizing-tank having a water-tight  
 40 heatable compartment, with a series of openings through the wall of the tank, the open-

ings widest at their extremities and tapering inwardly from their extremities toward the horizontal center whereby the inner angle of tapering walls of the openings will engage the razor-blade between its cutting edge and  
 45 back, in combination with a rest outside of and supported on the walls of the tank, on substantially the same plane as the said openings, for the purposes stated.

3. A sterilizing-tank having a water-tight  
 50 heatable compartment with a series of openings through the wall of the tank above the water-line, said openings being widest at their extremities and tapering inwardly from  
 55 their extremities so that the opposing angles of the walls of the openings will engage the razor-blade between its cutting edge and back, in combination with a rest located outside of and away from the tank in substantially the same plane as the openings, for the  
 60 purposes stated.

4. A sterilizing-tank having a water-tight  
 65 heatable compartment with a series of openings through the walls of the tank above the water-line for the insertion of razor-blades, in combination with a removable diaphragm-plate within the sterilizing-tank above the  
 70 openings through the wall of the tank and a rest outside of the tank and on the plane with the openings through the wall of the tank for supporting the razor-blade and handle as set forth.

Signed by us at Rome, Oneida county, New York, this 14th day of January, 1899.

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Witnesses:

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