H. BAEHR.

STERILIZER.

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1,270,095. Patented June 18, 1918.

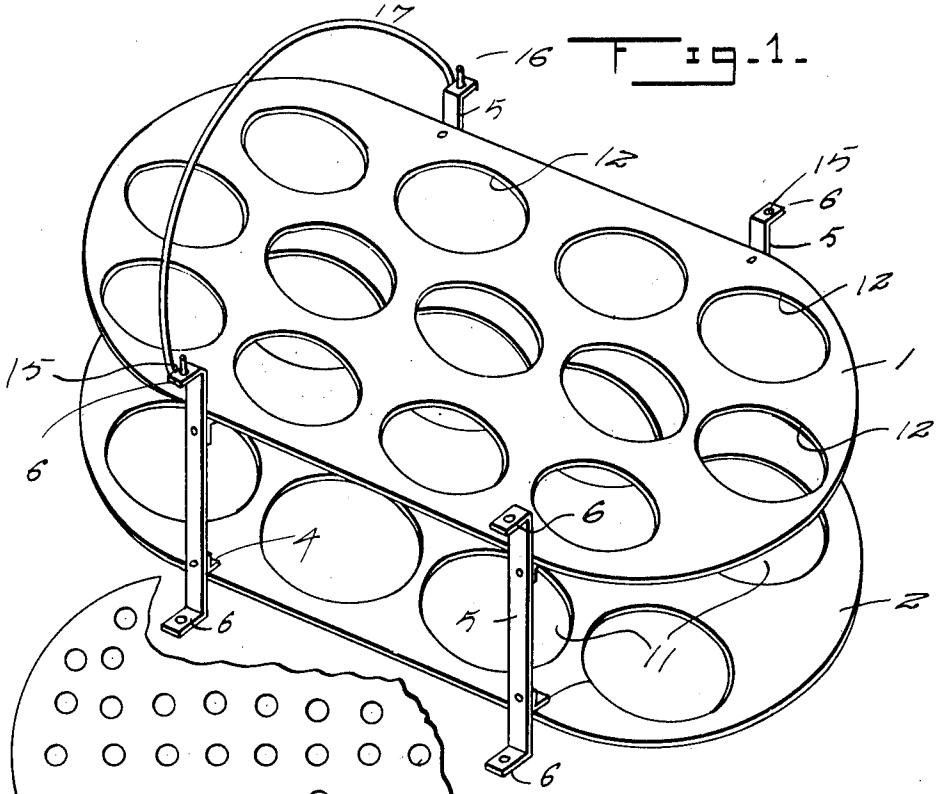


Fig. 1.

Fig. 3.

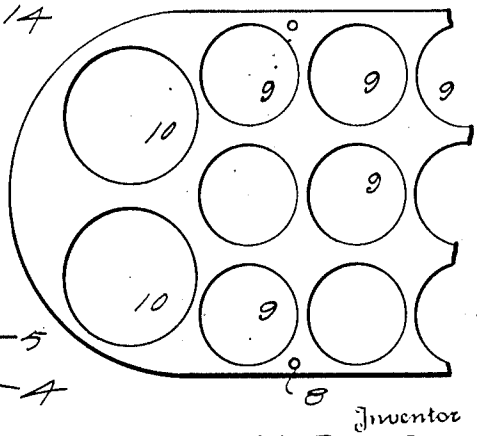


Fig. 4.

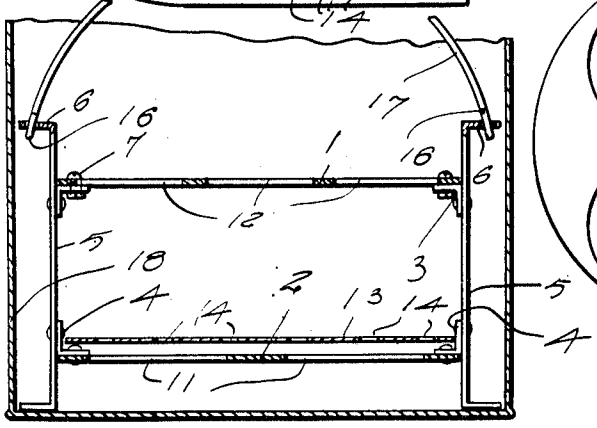


Fig. 2.

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STERILIZER.

1,270,095. Specification of Letters Patent. Patented June 18, 1918.

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To all whom it may concern:

Be it known that I, HERMINE BAEHR, a citizen of the United States, residing at Baltimore, in the State of Maryland, have invented certain new and useful Improvements in Sterilizers; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

The invention relates to a sterilizer.

The object of the present invention is to improve the construction of sterilizers and to provide a simple, practical and efficient sterilizer of strong, durable and inexpensive construction designed for sterilizing dry goods, pasteurizing milk, canning and preserving fruits and vegetables and steaming meats, puddings and the like. A further object of the invention is to provide a sterilizer of this character adapted for use by nurses and others in connection with sick rooms, hospitals and the like as well as in households and other places, and adapted to be readily reversed to enable it to receive bottles, jars and receptacles of different sizes.

With these and other objects in view, the invention consists in the construction and novel combination of parts hereinafter fully described, illustrated in the accompanying drawing and pointed out in the claims hereto appended; it being understood that various changes in the form, proportion, size and minor details of construction, within the scope of the claims, may be resorted to without departing from the spirit or sacrificing any of the advantages of the invention.

In the drawing:

Figure 1 is a perspective view of the reversible plates and connecting supports removed from the boiler or receptacle.

Fig. 2 is a vertical sectional view of the sterilizer showing the same applied to a boiler or receptacle.

Fig. 3 is a detail view of a portion of the tray.

Fig. 4 is a detail view of a tray having a plurality of openings of different sizes.

Like numerals of reference designate corresponding parts in the several figures of the drawing.

In the accompanying drawing in which is illustrated the preferred embodiment of the invention, the sterilizer comprises in its construction a pair of spaced horizontal plates 1 and 2 secured to angle brackets 3 and 4 of connecting supports 5 preferably consisting of vertical bars arranged in pairs and having their terminals bent outwardly to form laterally projecting lugs 6. The brackets are riveted or otherwise secured to the inner faces of the vertical bars and the plate 2, which is arranged at the bottom of the device in the accompanying drawing, is preferably riveted to the bottom bracket, while the upper plate 1 is detachably secured to the upper bracket 3 by bolts 7 or other suitable fastening devices to enable the upper plate to be removed and another plate having openings of a different size substituted for such plate. In Fig. 4 of the drawing is illustrated a bottom plate 8 having openings 9 and 10 of different sizes adapted to receive bottles, jars or other receptacles of different diameters. By having the upper plate removable the device may be quickly changed to enable it to be used for various purposes of canning, preserving, sterilizing and the like.

The bottom plate 2 and the top plate 1 are provided with openings 11 and 12 which are of different diameters to receive jars and bottles or the like and the jars or bottles are supported upon a tray 13 which is arranged between the supports and between the upper and lower plates and is adapted to rest upon the plate at the bottom of the device. The device is reversible and when the device is reversed the plate previously at the top is brought to the bottom and the bottom plate is carried to the top. The tray is then arranged upon the bottom plate, being readily movable in the space between the upper and lower plates to enable it to be placed upon either of the said plates.

The tray and the plates 1 and 2 have rounded ends and they conform to the configuration of an ordinary boiler and are adapted for use in the same, the tray being provided with relatively small perforations and preferably consisting of a plate of metal, but any other suitable material may of course be employed in the construction of the tray. The perforations 14 are relatively small but they may be of any desired size and the tray forms a bottom upon which the receptacles, such as bottles, cans, jars and the like are supported.

The terminal portions of the supporting bars 5 project beyond the plates to form legs

and the said lugs 6 which are located at the ends of the legs are provided with eyes or openings 15 which are adapted to be engaged by hooks 16 of bails 17 which are adapted to be engaged with the lugs at the ends of the supports. This will enable the device to be readily lifted from the boiler 18 so that there is no liability of the operator's hand coming in contact with the hot water or other heated portions of the device. In the reversing or inverting of the device, the tray and the bottom plate may be simultaneously grasped to turn the device so that there is no liability of the tray accidentally slipping and the tray may then be readily placed in position upon the lower plate. The tray is adapted to rest upon the lowermost plate in either position of the device. The bottles, cans or other receptacles are placed upon the tray and are arranged within the openings of the upper plate so that there is no liability of the bottles, cans or jars slipping when placing them in or removing them from the boiler. The sterilizer is adapted for steaming fruit, vegetables and the like as well as meats, puddings and other articles of food so that the device may be employed for cooking as well as steaming, canning and sterilizing. It is particularly adapted for sterilizing dry goods, clothing and various articles used in the sick room and hospital or the like, and it may be used for a large variety of cooking, steaming and sterilizing operations.

What I claim is:

1. An invertible sterilizer comprising supports, plates having openings of different sizes and the openings of one plate differing in size from the opening of the other plate and said plates secured to the supports in relatively spaced relation and in spaced relation with the ends of the supports to provide legs at both ends of said supports, and a tray arranged between the supports and adapted to rest upon the lowermost plate in either position of the device.

2. A sterilizer comprising supports, plates secured to the supports in relatively spaced relation and in spaced relation with the ends of the supports to provide legs at the ends of the supports, each plate provided with openings and the openings of one plate being of different size from the openings of the other plates, said plates and supports being invertible to arrange either of the plates at the top, and a tray located within the supports and between the plates and adapted to rest upon the lower plate in either position of the device.

3. An invertible sterilizer comprising supports, plates having openings of different sizes and the openings of one plate differing in size from the openings of the other plate, and said plates secured to the supports in relatively spaced relation and in spaced relation with the ends of the supports to provide legs at both ends of said supports, one of the plates being detachable to permit plates having openings of different sizes to be employed, and a tray located within the supports and adapted to rest upon the bottom plate in either position of the device.

4. An invertible sterilizer comprising supports consisting of vertical bars, brackets secured to the bars on the inner faces thereof and arranged in spaced relation with each other and the ends of the bars, top and bottom plates secured to the brackets and having openings of different sizes and the openings of one plate differing in size from the openings of the other plate, and a tray arranged within the supports and located between said plates and adapted to rest upon the lowermost plate in either position of the device.

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

HERMINE BAEHR.

Witnesses:

SIMON SILVERBERG,

CHARLES A. KELSO.