P. G. TRIQUET.

STERILIZER.

APPLICATION FILED MAY 9, 1912.

1,089,990.

Patented Mar. 10, 1914.

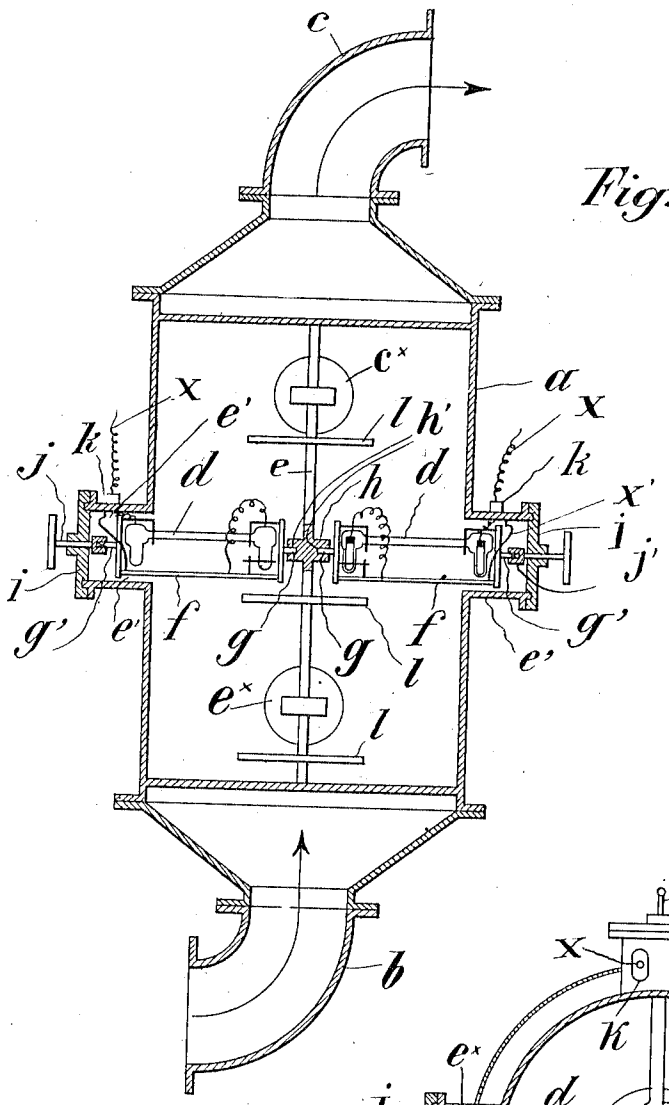


Fig. 1.

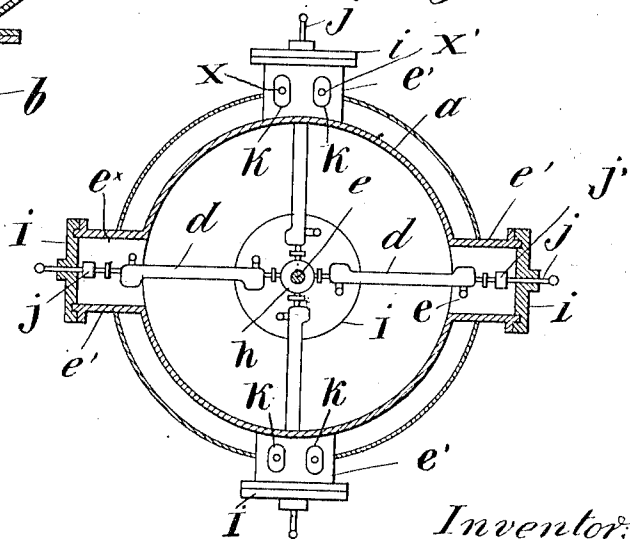


Fig. 2.

Witnesses:

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UNITED STATES PATENT OFFICE.

PAUL GABRIEL TRIQUET, OF PARIS, FRANCE.

STERILIZER.

1,089,990. Specification of Letters Patent. **Patented Mar. 10, 1914.**

Application filed May 9, 1912. Serial No. 696,275.

To all whom it may concern:

Be it known that I, PAUL GABRIEL TRIQUET, a citizen of the French Republic, and resident of Paris, France, have invented certain new and useful Improvements in Sterilizers, of which the following is a specification.

This invention relates to means for sterilizing water by the use of electric mercury lamps which generate ultra-violet and similar rays.

The object of the present invention is to provide means for independently mounting the lamps, to afford convenience in assembling the parts, and when storing the apparatus.

My invention also comprehends improvements in the details of construction and arrangement of parts which will be hereinafter described and particularly pointed out in the claims.

Figure 1 is a longitudinal vertical section of my improved sterilizer. Fig. 2 is a horizontal section of the same.

a indicates a tank or receptacle provided at its bottom with an inlet pipe *b*, and at its top with an outlet pipe *c*. The tank is provided at different levels with alined openings c^x, from which extend housings *e'*. Each housing is provided with a detachable cover *i*, formed with a central opening, through which extends the stem *j*, of a lamp actuating device, which is formed on its inner end with a bearing *j'*.

Suitably supported in the center of the tank *a*, is a vertical shaft *e*, and on this shaft are flanges *h*, provided with alined bearings *h'*. One of these flanges is arranged in alinement with opposite alined openings e^x, and the bearings *h'* are in alinement with the bearings on the ends of the actuating devices.

Supported in each bearing on the actuating device and the bearing in the flange *h*, in alinement with said actuating device is a mercury lamp *d*. Each lamp comprises a stirrup *f*, from the ends of which project trunnions *g* and *g'*, which fit in bearings *h'* and *j'*, respectively, the lamp proper being supported by the stirrup. Wires *x* and *x'* extend from each lamp and through insulated blocks *k*, in each housing *e'*.

It is to be noted that two alined lamps are arranged across the tank *a*, at different levels, the respective pairs of adjacent lamps being disposed at right angles to the other.

On the center shaft *e*, below each pair of lamps is a deflector *l*, which deflects the water into the path of the respective lamps.

In operation, the water passes into the tank through pipe *b*, and is subjected to the action of the rays of light given off by the various lamps, and finally passes out through the outlet pipe *c*.

By arranging the parts as described, the covers *i* can be quickly removed and the lamps inserted or removed.

Having now fully described my said invention, what I claim and desire to secure by Letters Patent, is:

1. An apparatus for sterilizing water comprising a receptacle formed with side pockets, said receptacle having water inlet and outlet openings, a central support in the receptacle, a lamp supporting device extending from each pocket to the central support, bearings on the support and in the pockets to receive the lamp supports, a horizontal lamp mounted in each lamp support, means for supplying each lamp with current, and means outside the receptacle for individually adjusting the lamp supports.

2. In an apparatus for sterilizing water, comprising a receptacle having water inlet and outlet openings, a central vertical support in the receptacle, the receptacle having pockets arranged in different levels, a detachable head for each pocket, a bearing in each pocket, bearings on the central vertical support in alinement with the bearings in the pockets, lamp frames supported in the bearings, lamps mounted in the lamp supports, and baffles mounted on the central vertical support, one of said baffles being located under each lamp.

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

PAUL GABRIEL TRIQUET.

Witnesses:
McCALANIEN.
H. C. COXE.