

H. C. DREISVOGT.  
 INHALING AND HEATING DEVICE.  
 APPLICATION FILED SEPT. 11, 1908.

929,199.

Patented July 27, 1909.

2 SHEETS—SHEET 1.

Fig. 1.

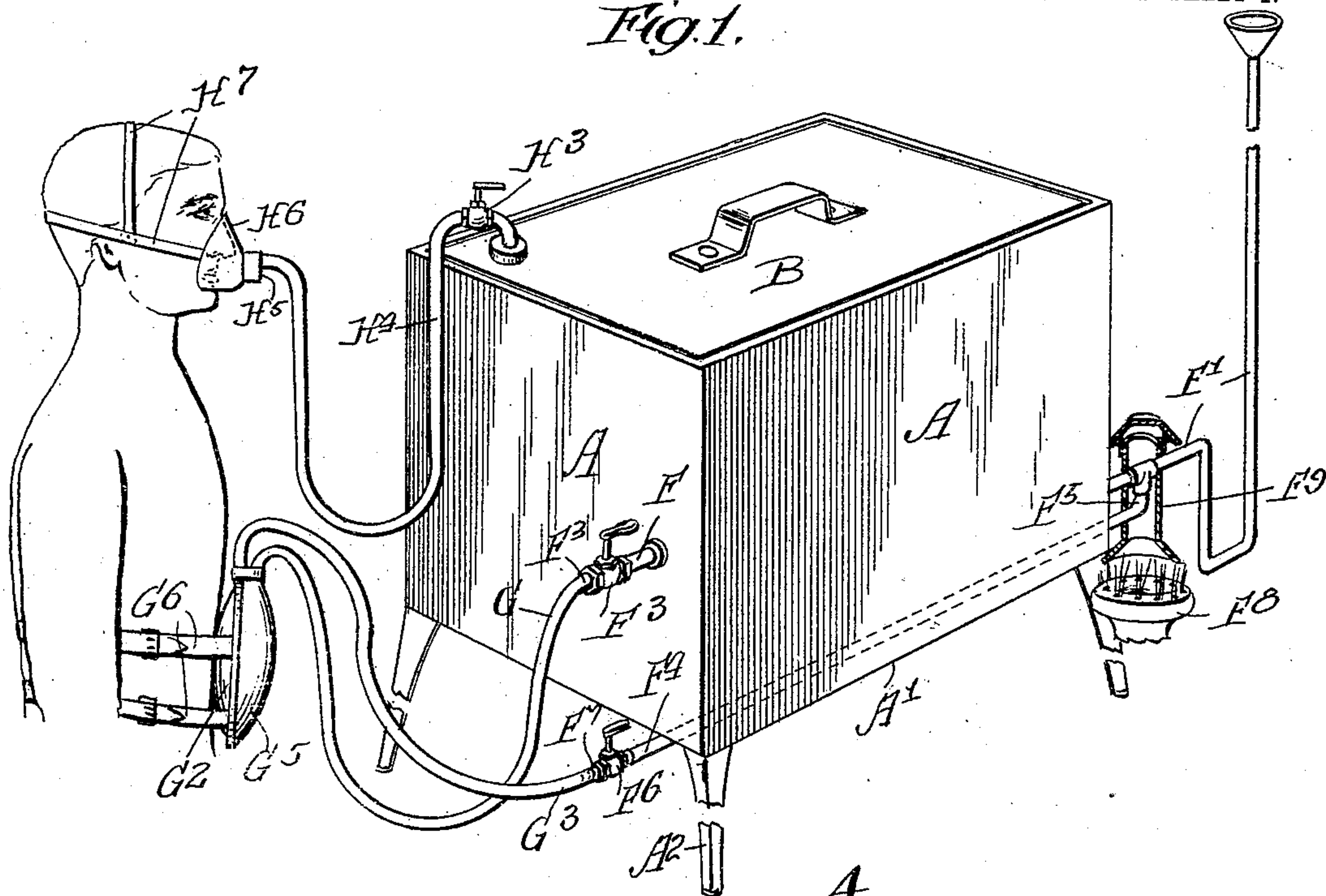


Fig. 2.

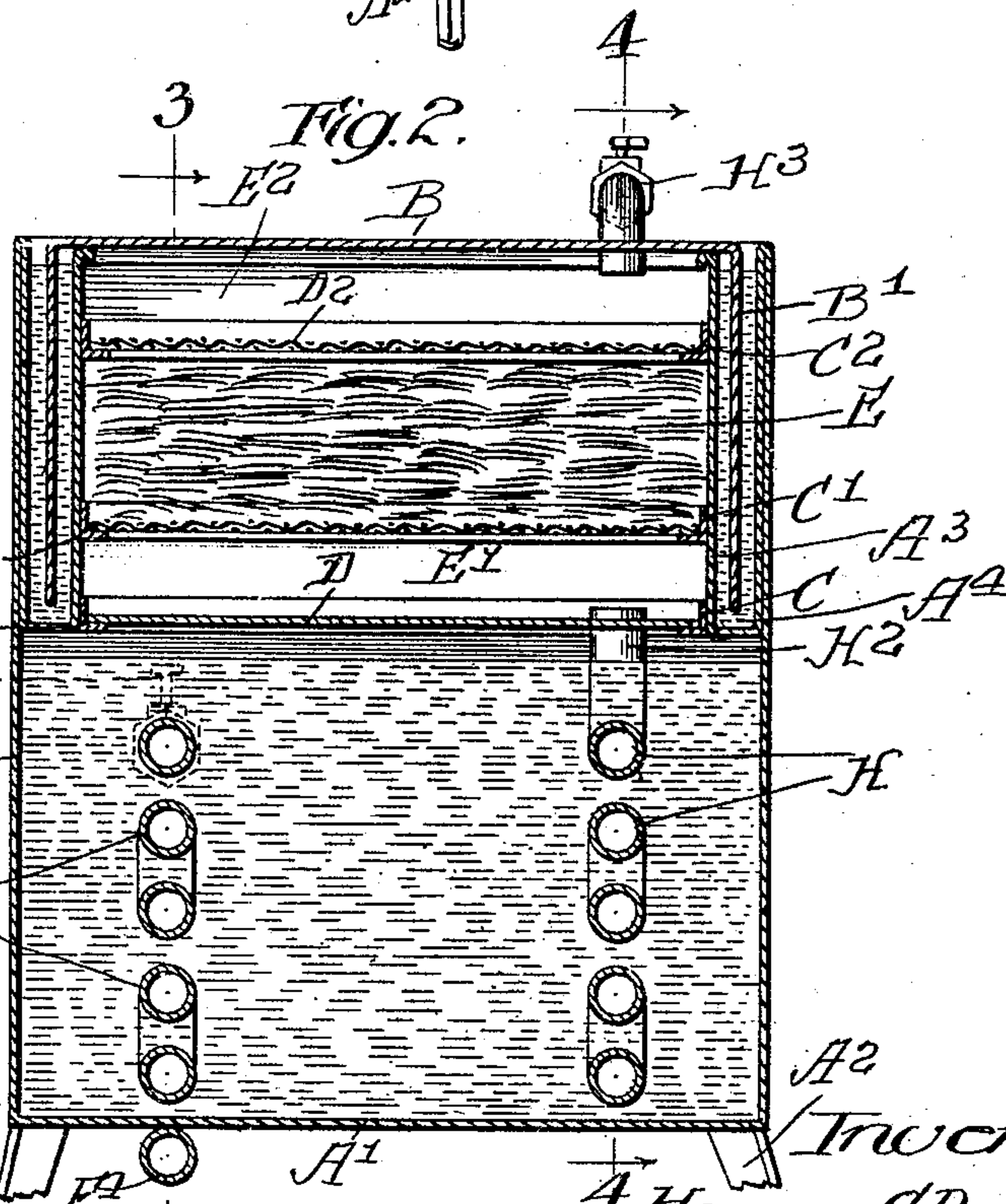
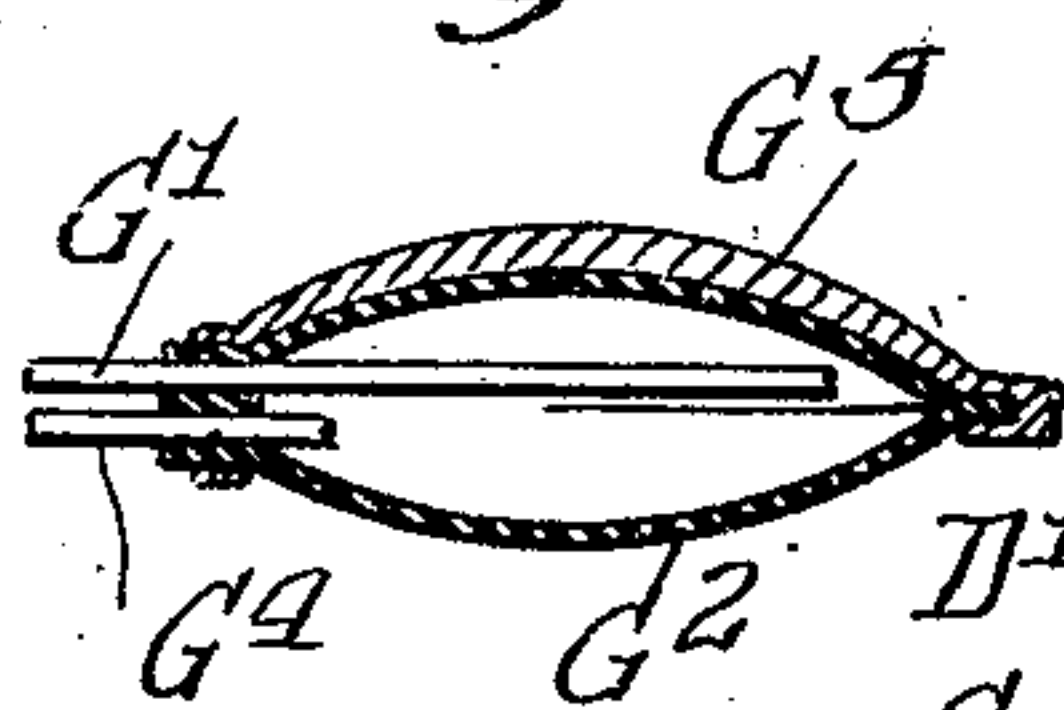


Fig. 5.

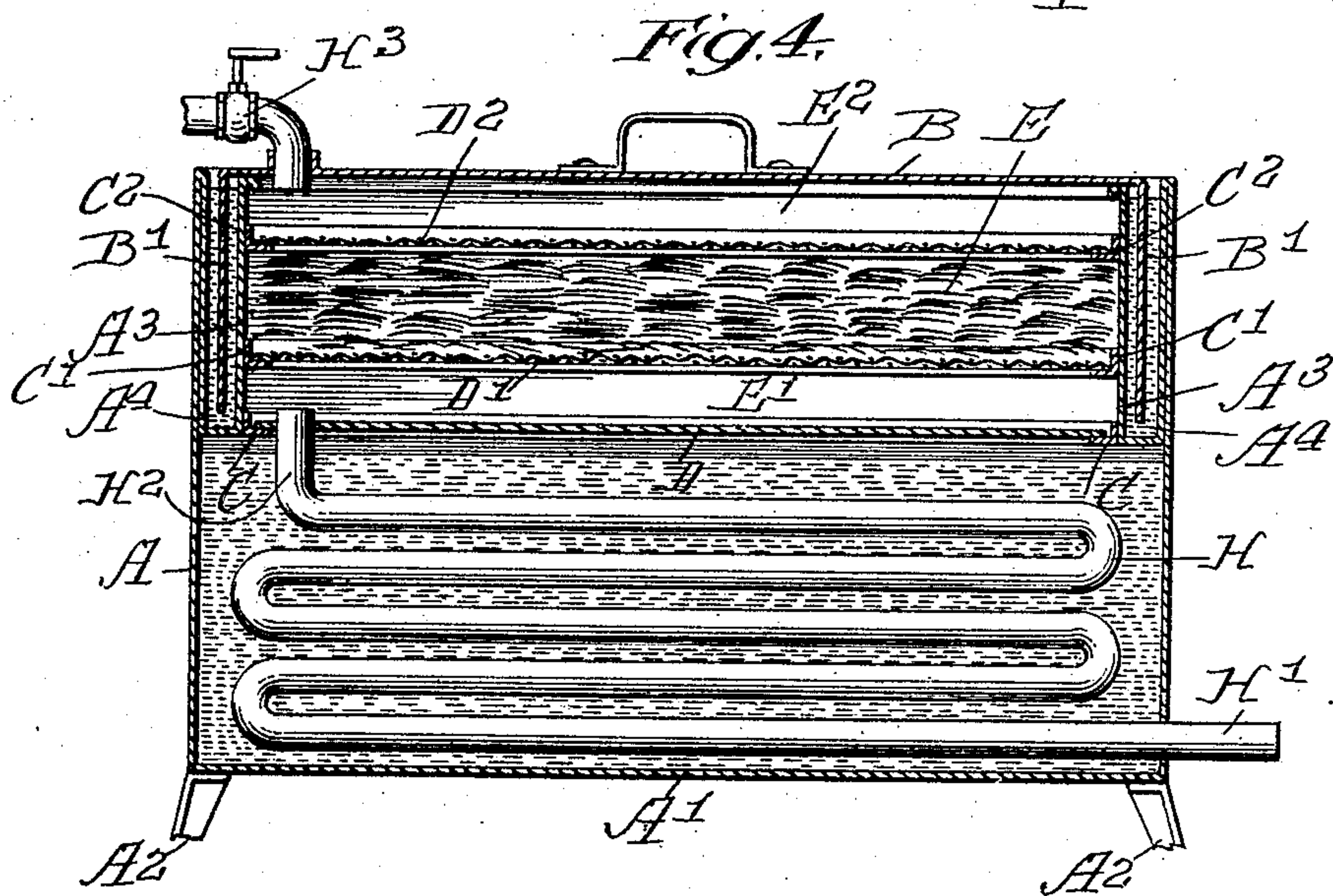
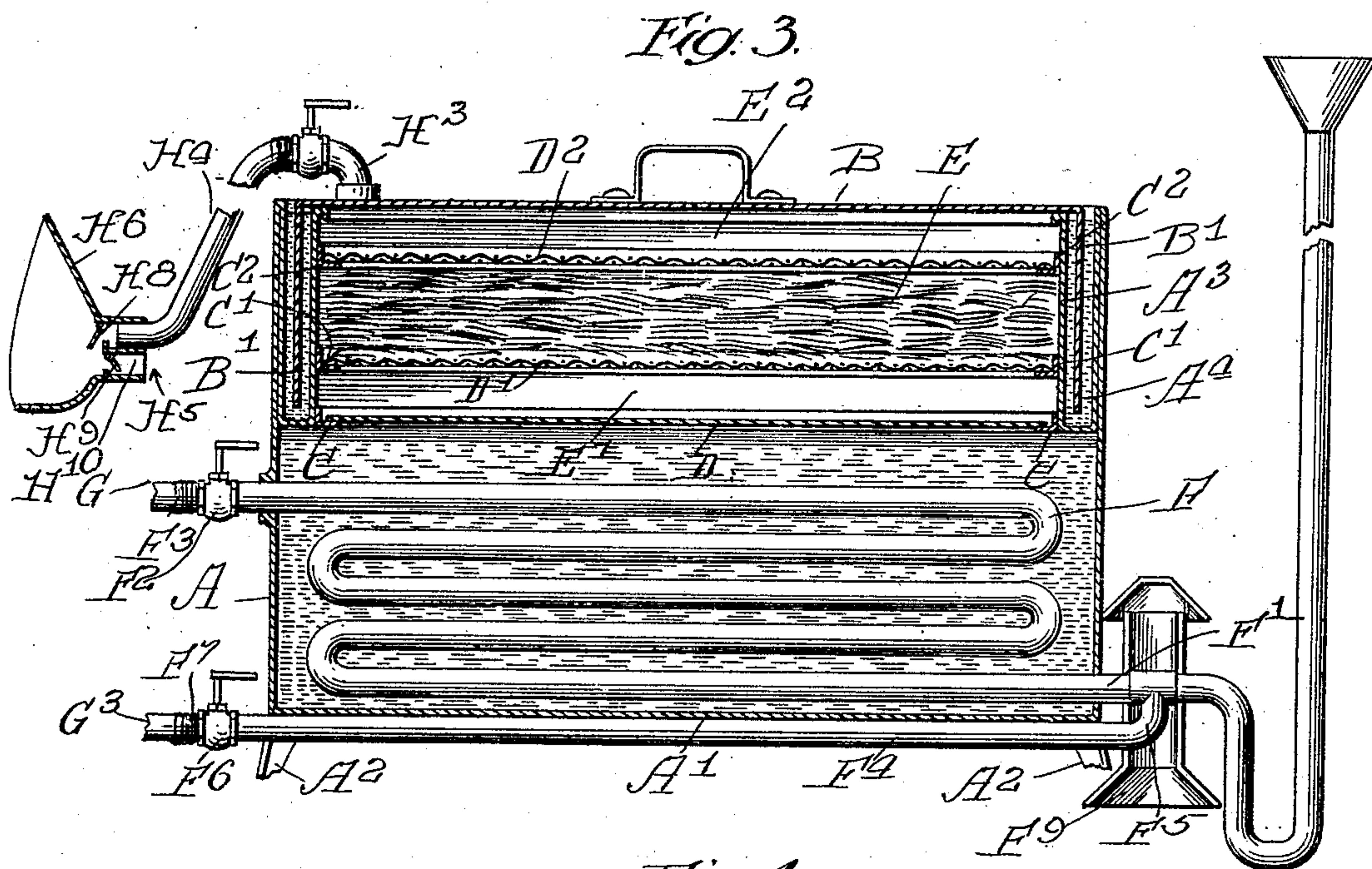


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**929,199.**

2 SHEETS—SHEET 2.



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# UNITED STATES PATENT OFFICE.

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## INHALING AND HEATING DEVICE.

No. 929,199.

Specification of Letters Patent.

Patented July 27, 1909.

Application filed September 11, 1908. Serial No. 452,609.

*To all whom it may concern:*

Be it known that I, HERMAN C. DREISVOGT, a citizen of the United States, and resident of Santa Clara county, State of California, have invented a new and useful Improvement in Inhaling and Heating Devices for Medicinal Purposes, described in the following specification.

The object of my invention is to provide a device by which water and air may be heated, and the air saturated with the medicinal properties of fluid and other substances through or over which the air is passed; to provide means adapted to convey heated air or air so medicated to the mouth and nose of a person; to provide means for conveying the heat of the water to any accessible part of a person's body, and to provide means for regulating the temperature and flow of the air, and heat and circulation of the water, under the control of the person using the device.

The manner in which I accomplish my object is described in the following specification and illustrated in the accompanying drawings, in which:

Figure 1 is a perspective elevation. Fig. 2 is a transverse section. Fig. 3 is a longitudinal section on the line 3—3 Fig. 2. Fig. 4 is a longitudinal section on the line 4—4 Fig. 2, and Fig. 5 is a longitudinal section of a water bag shown in Fig. 1.

In the drawings the reference letters and numerals indicate the same parts in each of the figures.

The vertical parts A and bottom A<sup>1</sup> are made preferably of thin sheet metal of any desired or convenient size for a tank. This tank is supported on legs A<sup>2</sup> of any desired length. At the top of the parts A are double folds A<sup>3</sup> as shown in Figs. 2, 3 and 4. Within these folds is a water compartment A<sup>4</sup> adapted for the insertion of the vertical flange of a lid. This tank is closed and made air-tight by a lid B having a vertical flange B<sup>1</sup> adapted to slide telescopically into the compartment A<sup>4</sup> in which it is surrounded with a body of water which prevents the escape of air from the tank. Fixed to the folds A<sup>3</sup> are projections C, C<sup>1</sup> and C<sup>2</sup>. On the projections C a division plate D rests. On the projection C<sup>1</sup> a screen D<sup>1</sup> rests, and on projection C<sup>2</sup> another screen D<sup>2</sup> rests. In the space E between the screens D<sup>1</sup> and D<sup>2</sup> the leaves of the *Eucalyptus*, and any other substance required to impregnate the

air is placed. Below and above these screens are air spaces E<sup>2</sup> and E<sup>1</sup>. In the water space below the plate D are two coils of pipe. The coil F is adapted for hot water and is provided with a feed pipe F<sup>1</sup> adapted in height to maintain a proper water pressure in the coil and its connections. On the opposite end is a valve F<sup>2</sup> and nozzle F<sup>3</sup>. Extending beneath the tank is a return pipe F<sup>4</sup> connected by a vertical joint F<sup>5</sup> with the feed pipe F<sup>1</sup>. On the opposite end of the pipe F<sup>4</sup> is a valve F<sup>6</sup> and nozzle F<sup>7</sup>. Connected to the nozzle F<sup>3</sup> is a flexible tube G which is attached at the other end to a tube G<sup>1</sup> supported in a water bag G<sup>2</sup>. Connected with the nozzle F<sup>7</sup> is a flexible tube G<sup>3</sup> which is attached at the other end to a tube G<sup>4</sup> supported in the water bag G<sup>2</sup> whereby a complete circulation in the coil and bag is secured. The water bag is secured in a shell G<sup>5</sup> to which straps G<sup>6</sup> are secured, and whereby the water bag may be fastened to any part of the body.

To create the desired temperature and circulation of water through the coil and bag, heat is applied by the flame F<sup>8</sup> to the part F<sup>5</sup> of the return pipe F<sup>4</sup> which is inclosed in a flue F<sup>9</sup> through which the flame F<sup>8</sup> passes. Or the heat may be obtained by heating the water in the tank by a flame beneath the tank or by any other convenient means. The other coil H is adapted to convey air through the spaces E<sup>2</sup>, through the screens D<sup>1</sup> and D<sup>2</sup> and through the leaves E<sup>1</sup> or other substance placed between the screens. The air enters the coil through the feed pipe H<sup>1</sup> by natural draft or by mechanical pressure, and passes out of the coil through the end H<sup>2</sup> through the screens and out of the tank from the space above the screens through the valve H<sup>3</sup>. Connected to this valve is a flexible tube H<sup>4</sup>, attached at the other end of the tube is a double valve H<sup>5</sup> and a funnel H<sup>6</sup> adapted to cover the nose and mouth over which it is secured by the head-straps H<sup>7</sup>. In the valve H<sup>5</sup> a member H<sup>8</sup> closes the opening of the flexible tube, another member H<sup>9</sup> closes the opening H<sup>10</sup> through which the breath is free to pass, but no air may enter from the outside.

It is obvious that the temperature of the air may be regulated either by the heat of the water surrounding the coil in the tank or by the flame of a lamp applied to the inlet at H<sup>1</sup> in the same manner as described



and illustrated in connection with the water coil. Various methods of heating the water in the tank and thereby regulating the temperature of the air in the funnel over the face and of the water in the bag may be adapted as the location and convenience therein provide, hence I do not confine myself to the flame of a lamp but claim the right to use the most available and desirable means for that purpose. It is also obvious that the medicinal substances placed between the screens may be solids or fluids suspended in suitable materials through which the air will pass and be thereby saturated. It is obvious also air not medicated may be heated and inhaled from the tank, and that air instead of water may be heated and passed through the water pipe coil and bag.

What I claim as new and desire to secure by Letters Patent is:

1. An inhaling device consisting of a rectangular tank channeled around the top edge and adapted thereby to form a water compartment for the flange of a lid; a lid having a closable valve said lid being adapted to cover said tank and having a flange adapted to fit into said water compartment; a plate supported horizontally in the central part of said tank and adapted to close the lower part of the tank; a pair of screens spaced from each other vertically and supported in said tank horizontally

above said plate; an air pipe coil in said tank below said plate one end of said coil extending through the wall of said tank and the other through said plate; a flexible tube having a funnel, said tube being attached to said valve on said lid as described.

2. The combination with a rectangular tank the upper part thereof having an interior fold adapted to form a water compartment around said tank, of a lid having a flange part adapted to be inserted in said water compartment in said folded part of said tank, and a closable valve in the top of said lid; a series of projections supported on the interior of said tank and spaced from each other vertically; a plate supported on the lowest of said projections said plate forming a cover for the lower part of said tank; a pair of screens supported on said projections and spaced from said plate and from each other vertically; a hot water pipe coil in said tank below said plate; an air pipe coil in said tank below said plate one end of said pipe extending through said plate; an elastic tube secured to said valve on said lid, and a funnel secured on the other end of said tube adapted to cover the nose and mouth of a person.

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Witnesses:

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