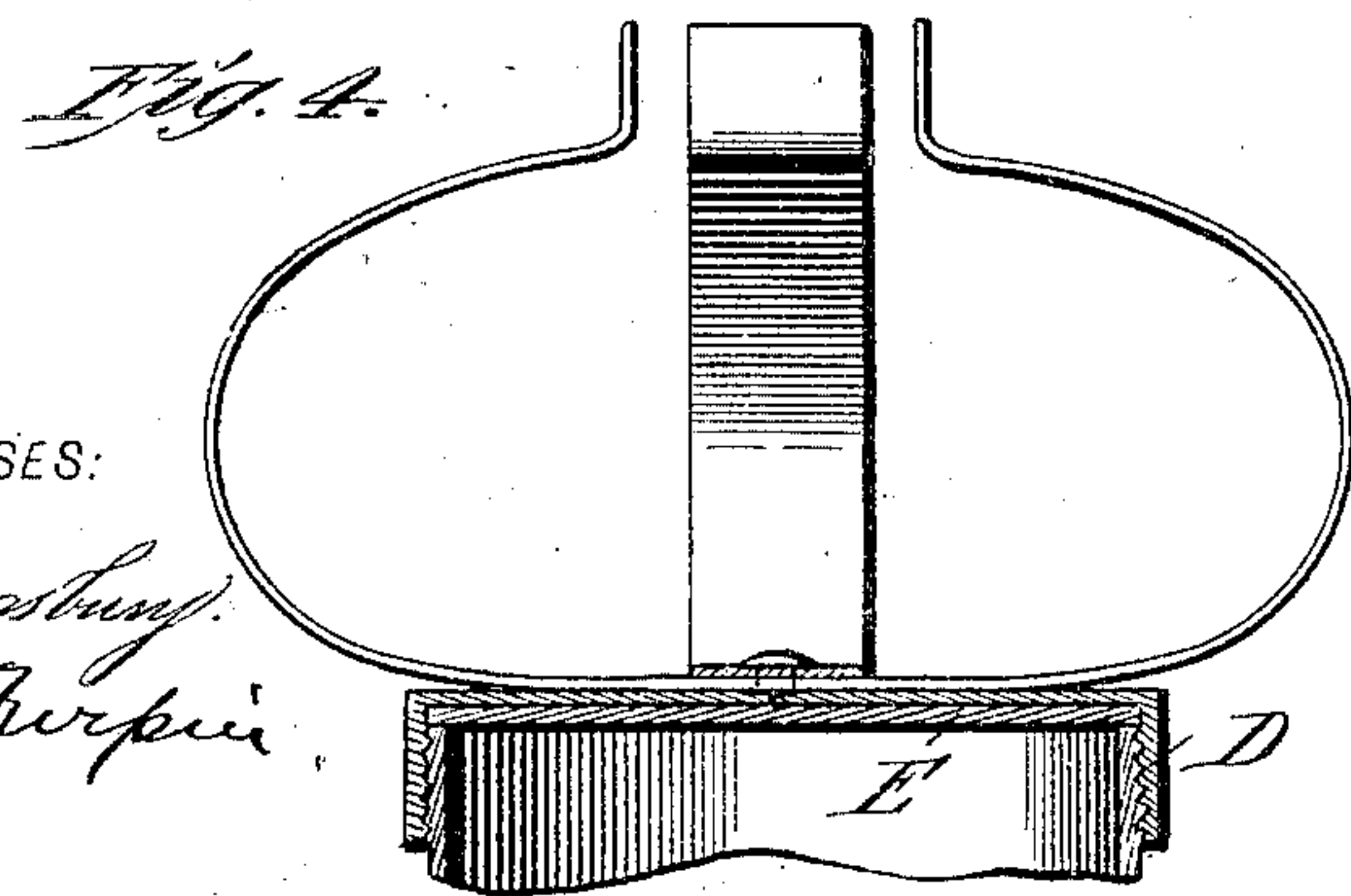
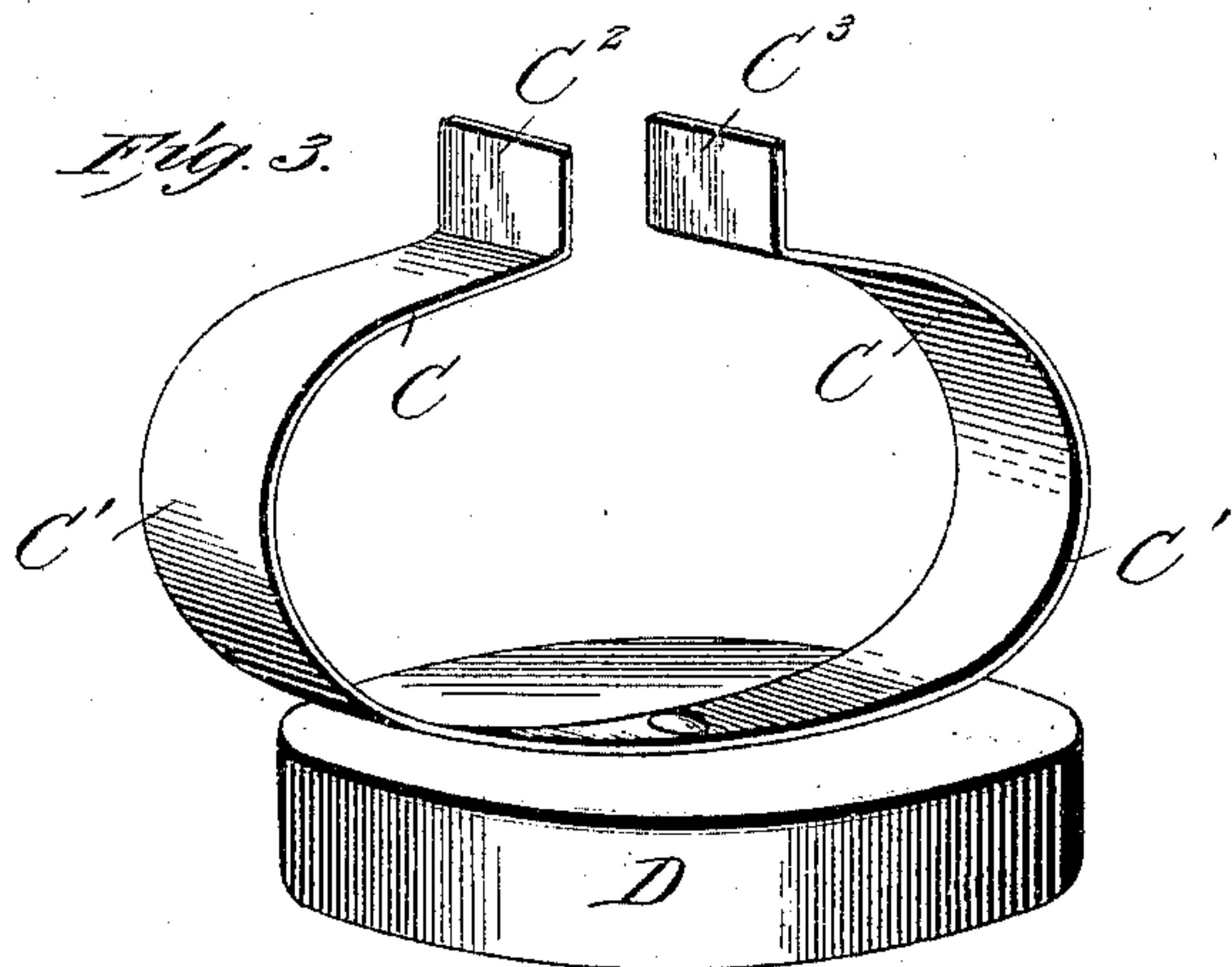
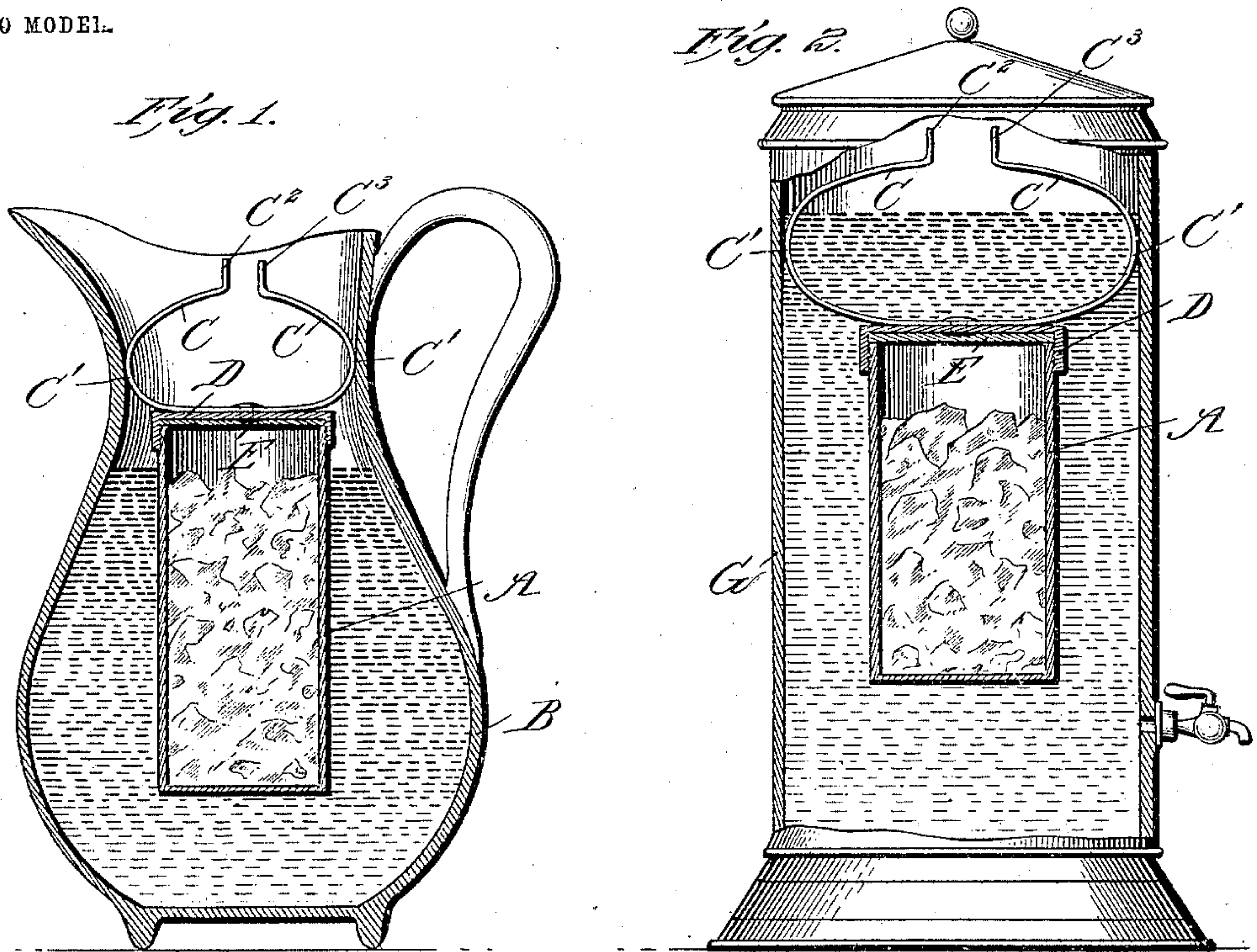


No. 725,145.

PATENTED APR. 14, 1903.

J. H. ROSE.
WATER COOLER OR HEATER.
APPLICATION FILED JULY 9, 1902.

NO MODEL.



WITNESSES:

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UNITED STATES PATENT OFFICE.

JOHN HENRY ROSE, OF SHREVEPORT, LOUISIANA.

WATER COOLER OR HEATER.

SPECIFICATION forming part of Letters Patent No. 725,145, dated April 14, 1903.

Application filed July 9, 1902. Serial No. 114,898. (No model.)

To all whom it may concern:

Be it known that I, JOHN HENRY ROSE, a citizen of the United States, and a resident of Shreveport, in the parish of Caddo and State of Louisiana, have made certain new and useful Improvements in Water Coolers or Heaters, of which the following is a specification.

My invention is an improvement in devices for cooling and heating water and the like, and relates particularly to coolers and heaters in which the heating or cooling medium is placed within an air-tight can and the latter is immersed in the liquid to be heated or cooled; and the invention consists in certain novel constructions and combinations of parts, as will be hereinafter described and claimed.

In the drawings, Figure 1 is a sectional view of my invention as in use in a water-pitcher for cooling the contents thereof. Fig. 2 is a sectional elevation of the water-cooler provided with my invention. Fig. 3 is a detail perspective view of the can-lid having the spring-arms for holding the can in position in the vessel; and Fig. 4 shows the can-lid as provided with a double clamp, the sections of which operate at a right angle to each other.

By my invention I provide a can or holder A for ice or other cooling or heating medium and a spring connected therewith and arranged to expand within the pitcher B or cooler G or other receptacle in such manner as to hold the can A suspended therein, as shown in Figs. 1 and 2. The spring is preferably formed with the opposite side sections or bows C, which spring outwardly, bind at C' within the vessel, and have their ends C² arranged adjacent to each other and so they can be pressed together to free the bows from engagement with the interior of the vessel when it is desired to remove or insert the can. As shown, the can A is provided with a lid D, and the spring is connected with the said lid, preferably to the top thereof, and has its bows C' arranged to extend beyond the sides of the lid, as shown in Figs. 1 and 2. It will be noticed that the handle portions C² are centrally above the can and cover and in convenient position to be grasped by the operator in inserting and removing the can. This can may be of tin, sheet metal, porcelain, or other suitable material, as also may be the lid D. As shown, the spring-bows C' are formed integrally by properly bending a spring-strip

and securing the same at its middle to the cap or lid D.

Instead of putting the ice directly in the water or other liquid it is put inside of an air-tight can, which is then immersed in the liquid to be cooled. In this way the ice does not come in direct contact with the liquid, will last longer, and will not injure the liquid by mixing therewith, and by placing the ice in an air-tight can a given quantity of ice will cool double the quantity of water in a certain length of time as compared with placing the ice directly in the water, and by mixing some salt with the ice it will do still better work, as stated above.

For heating purposes, as for keeping milk warm for children, the can may be filled with boiling water and immersed in the liquid to heat the same as desired.

The improved devices may be made in different sizes to fit different pitchers or coolers, and the cover or lid may be lined on the inside by a disk E, of rubber, felt, cork, or other suitable material, so that after the lid is screwed on a perfectly air-tight joint may be secured.

In large coolers I may provide a double spring, with the spring-strips crossed, as shown in Fig. 4 of the drawings.

By arranging the springs to extend at their bowed portions laterally beyond the can they may adapt themselves within a certain range to different sizes of vessels, and by making the cooling-cans in different sizes they may be supplied to customers, so they can be used in coolers or water-pitchers already in hand, not requiring a special vessel for their application.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

A heating or cooling device comprising the can, the lid therefor, and the spring secured at its middle to the lid bent between its ends to form the opposite bows projecting laterally beyond the lid and having at its ends the projecting handle portions by which the bows may be compressed in inserting and removing the device from a vessel, substantially as set forth.

JOHN HENRY ROSE.

Witnesses:

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R. E. HANNA.