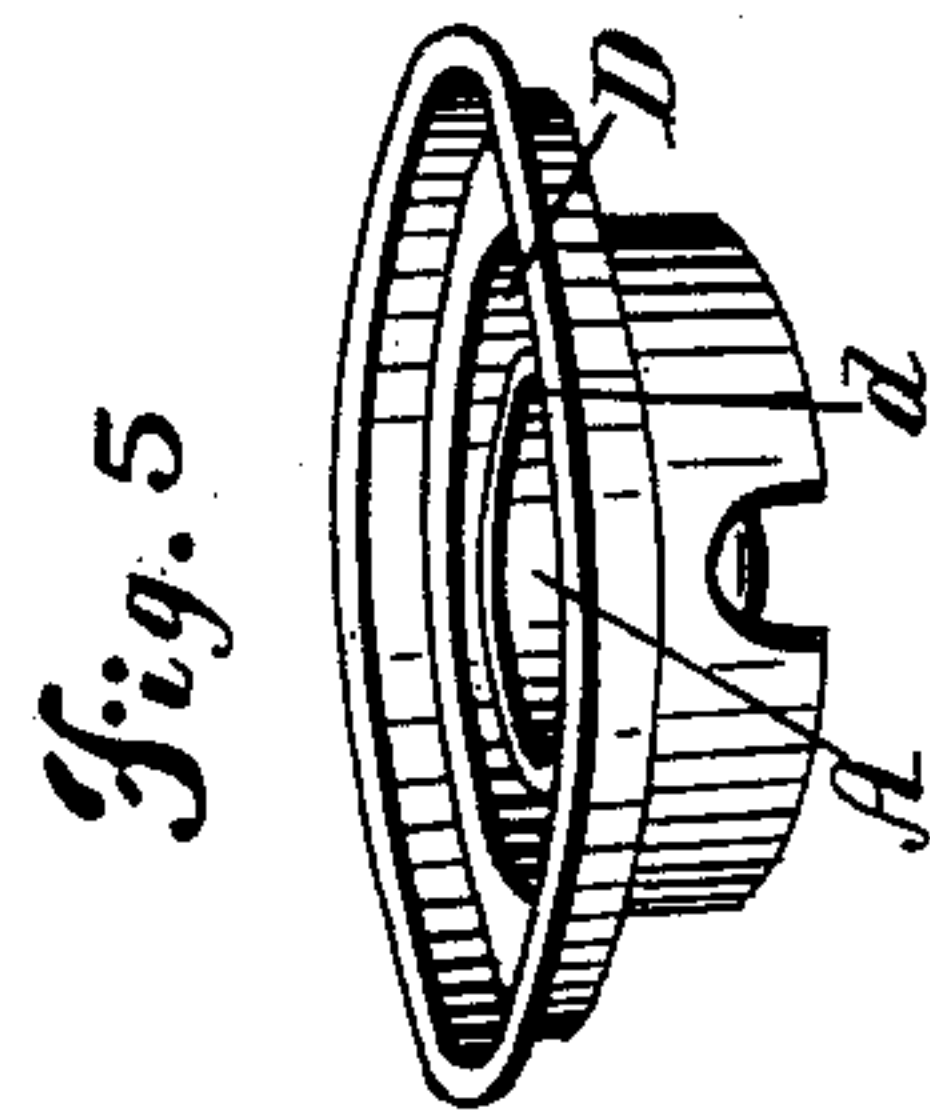
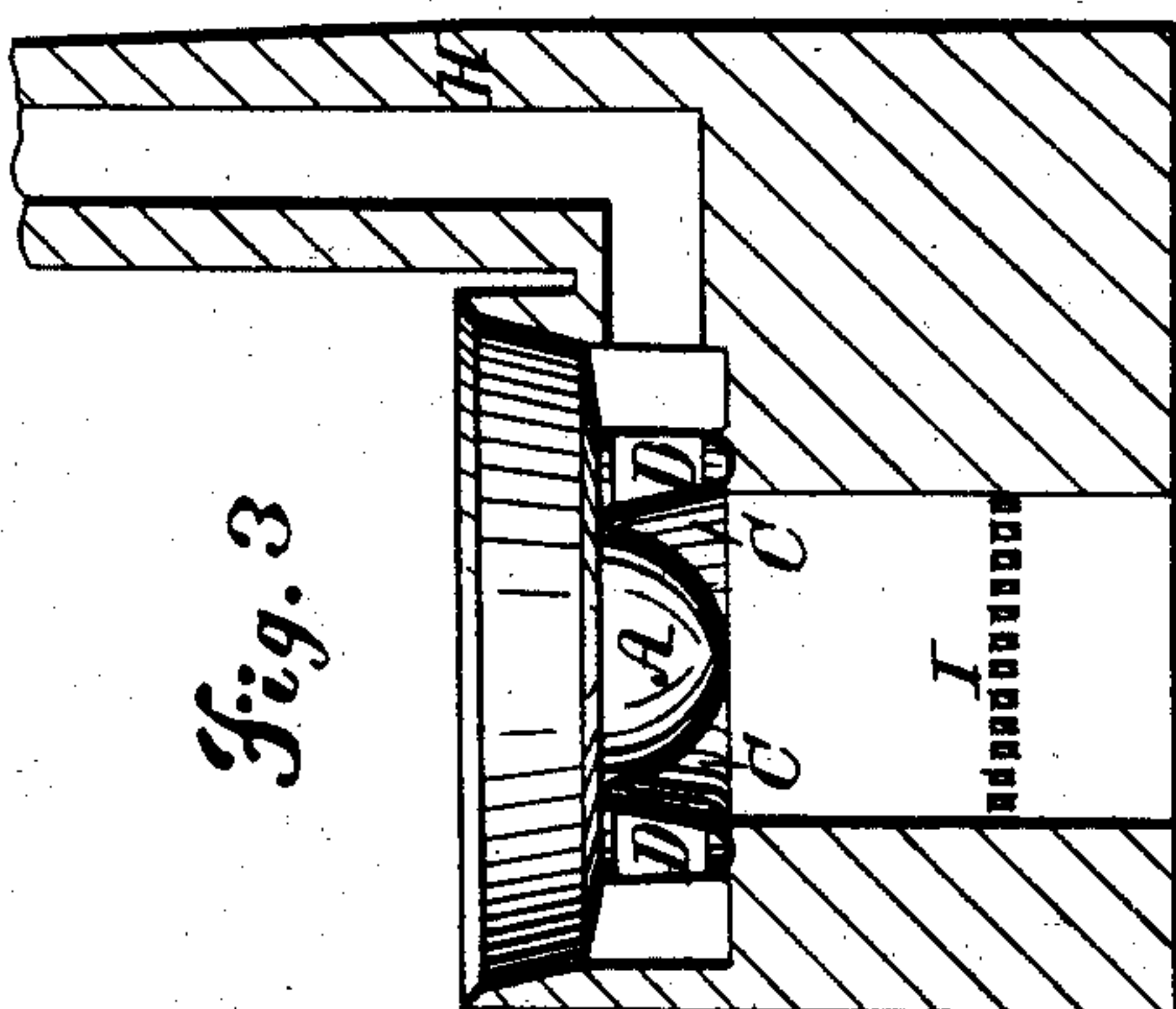
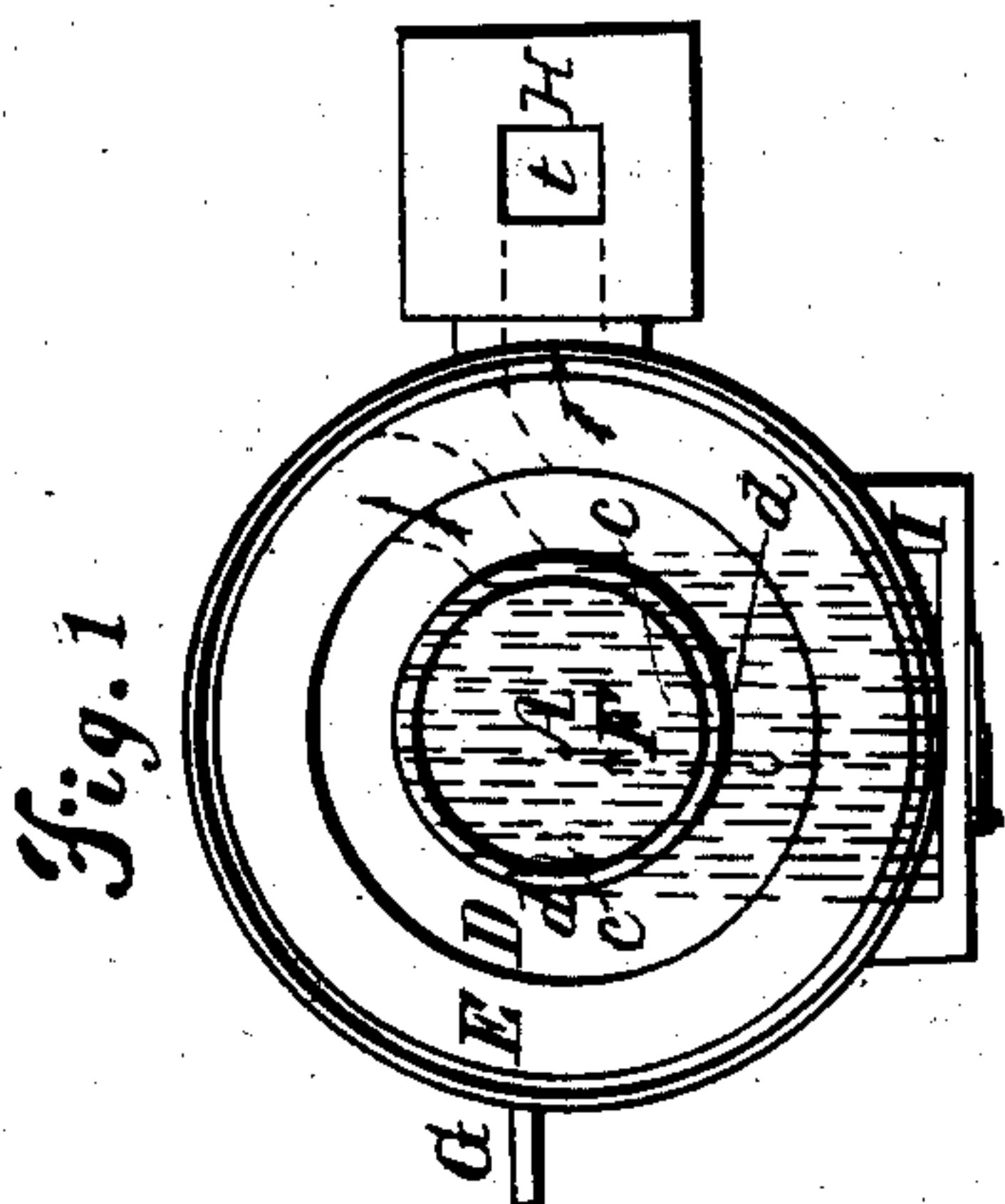
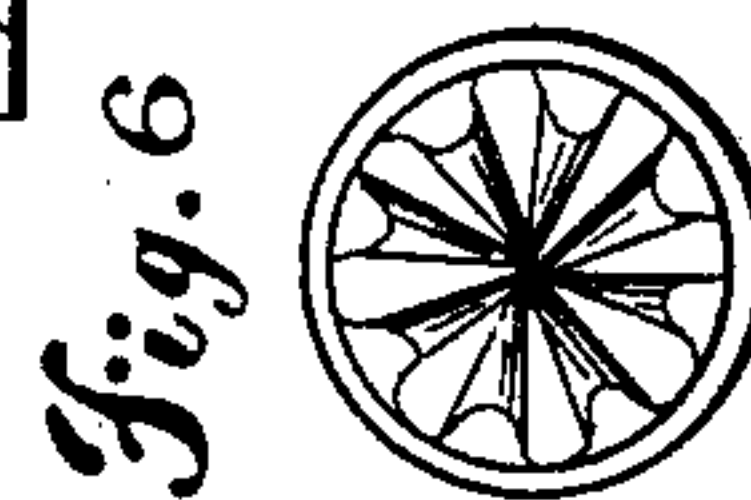
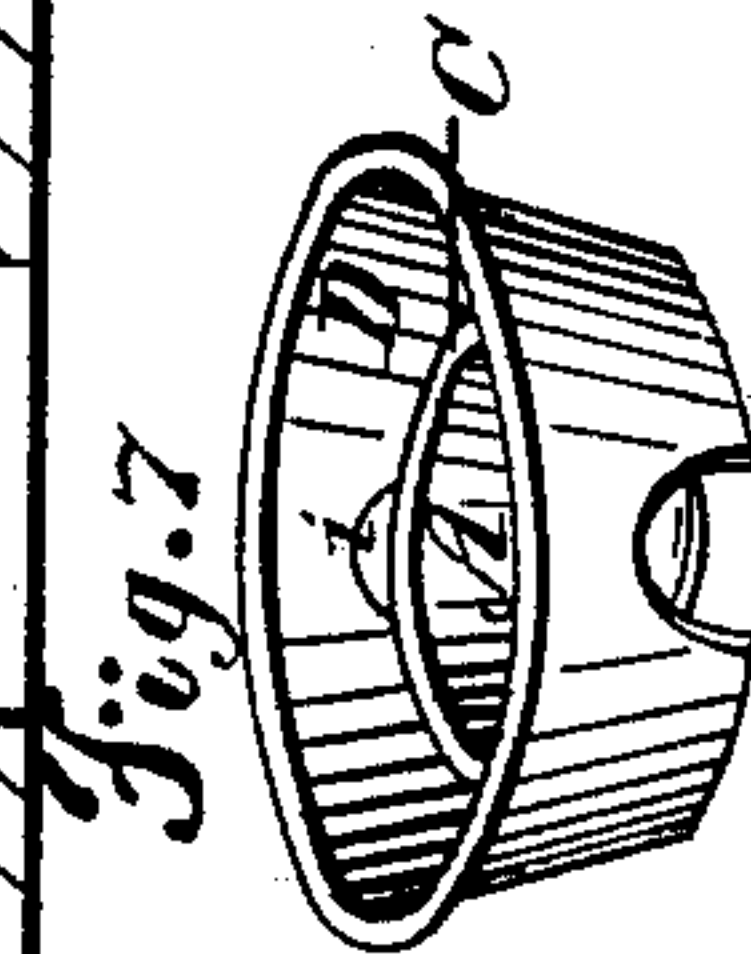
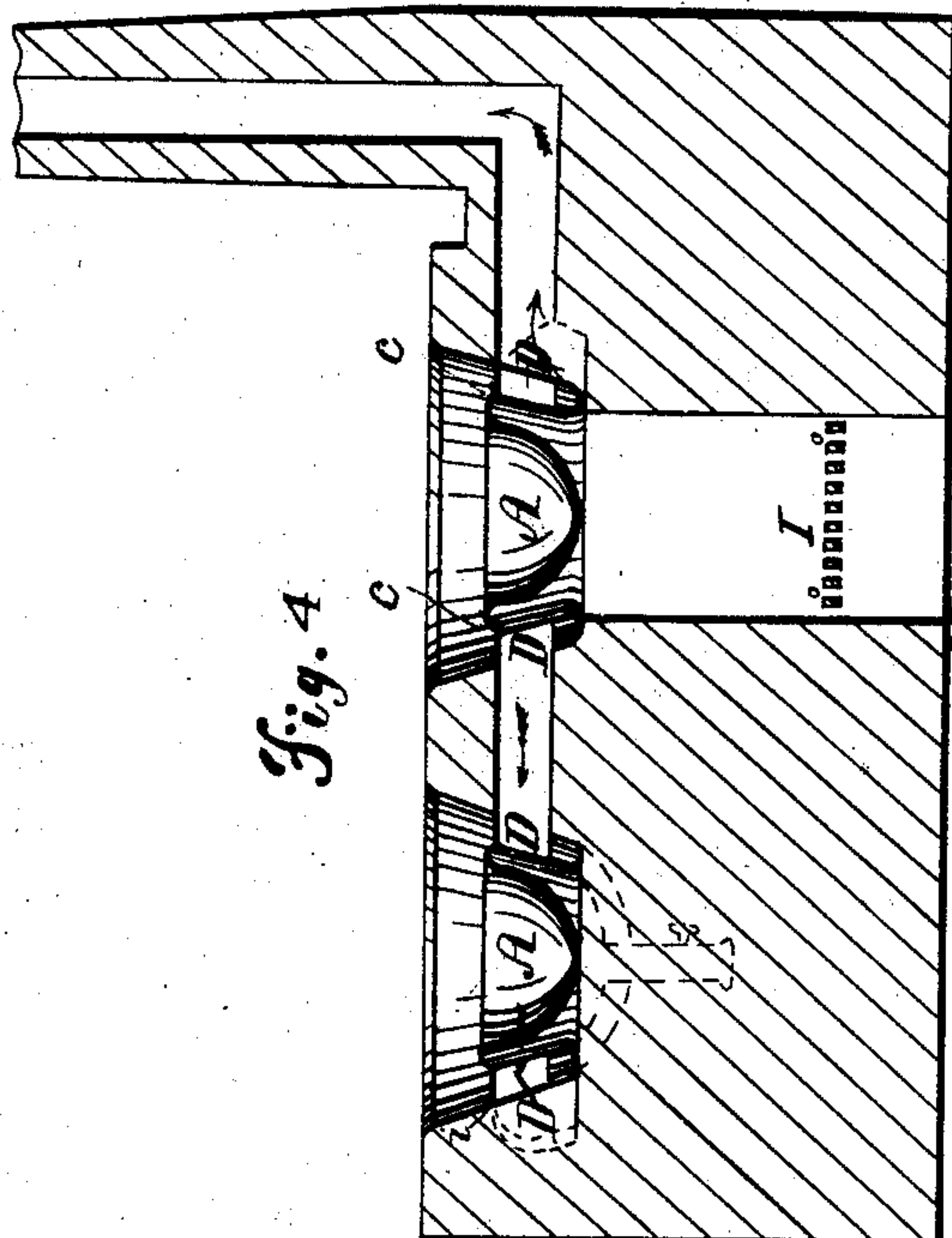
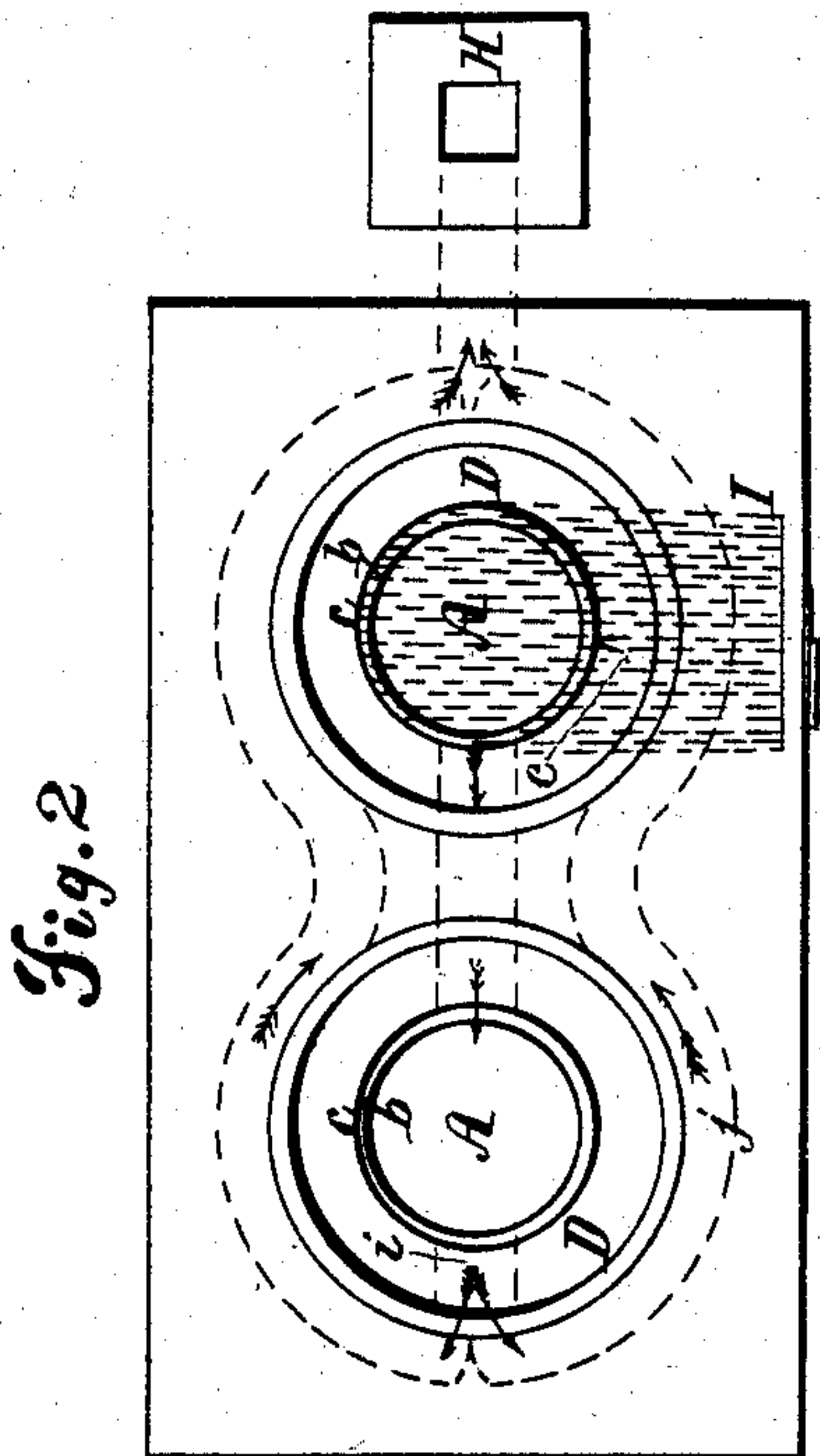


L. LEFEBVRE.
Sugar Evaporator.

No. 69,684.

Patented Oct. 8, 1867.



Witnesses

J. Franklin Reigart
J. S. Dodge

Inventor

L. Lefebvre

United States Patent Office.

LOUIS LEFEBVRE, M. D., OF NEW ORLEANS, LOUISIANA.

Letters Patent No. 69,684, dated October 8, 1867.

IMPROVED SUGAR-EVAPORATORS.

The Schedule referred to in these Letters Patent and making part of the same.

TO ALL WHOM IT MAY CONCERN:

Be it known that I, LOUIS LEFEBVRE, M. D., of the city of New Orleans, parish of Orleans, and State of Louisiana, have invented a Multiple Evaporator and Triple Cylinder for Evaporating Juice or Liquid heated by fire or steam; and I do hereby declare the following to be an exact description thereof, reference being had to the accompanying drawings and to the letters of reference marked thereon, making a part of this specification, in which—

Figure 1 represents a top view of one evaporator.

Figure 2, a top view of two of the evaporators.

Figure 3, a side elevation of one of the evaporators.

Figure 4, a side elevation of two evaporators.

Figure 5, a perspective view of a single evaporator.

Figure 6 only shows that the evaporators may be corrugated if desired.

Figure 7 is a perspective view of the evaporator as used in any number, two or more.

The nature of my invention consists in the shape and construction of the evaporators or kettles, one or more, for the purpose of evaporating juice or liquid by direct fire or steam.

A represents the half sphere or centre kettle, (as seen at fig. 1,) C the fire-chamber, d the second kettle, separated by the fire-chamber C. E the platform, incline-shaped, from which the juice or liquid passes down into both the kettles A and D, communicating with each other by a pipe, F. G is the discharge pipe. H is intended to represent the flue of a furnace, and I the fire-grate.

This kettle is more particularly intended to be heated by fire, the heat acting on both kettles, and passing around by radiation (as exhibited by the arrows) until the heat passes off through the flue H, thus saving time and fuel.

Fig. 2 represents two kettles, as at fig. 1, and of the same construction, excepting no platform E. These kettles are intended to be heated by steam or fire, and when heated by steam, the steam passes through the pipe J into the chamber C, heating both kettles at the same time, passing all around both kettles, not affected by the action of the air, and having the whole heat of the steam, thus saving the full benefit of the steam.

What I claim as my invention, and desire to secure by Letters Patent, is—

The construction of the multiple evaporators and triple cylinders, one or more kettles communicating with each other, as herein described, and for the purpose of evaporating juice or liquid by direct fire or steam, as set forth.

L. LEFEBVRE, M. D.

Witnesses:

J. FRANKLIN REIGART,

JOHN S. HOLLINGSHEAD.