A. MINTZ.

COFFEE MAKING APPARATUS.

APPLICATION FILED JUNE 15, 1915.

1,167,199.

Patented Jan. 4, 1916.

Fig. 1.

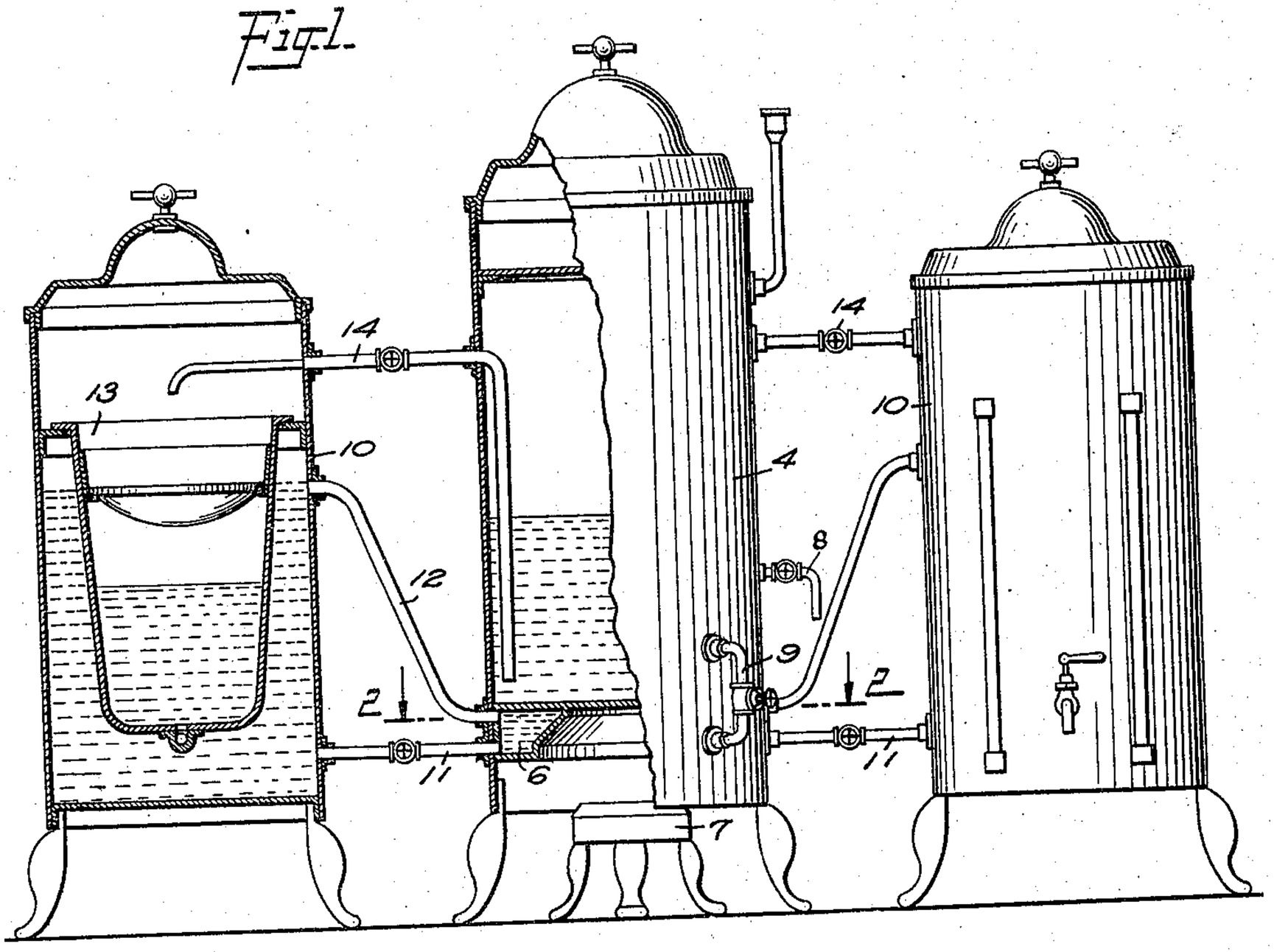


Fig. 2.

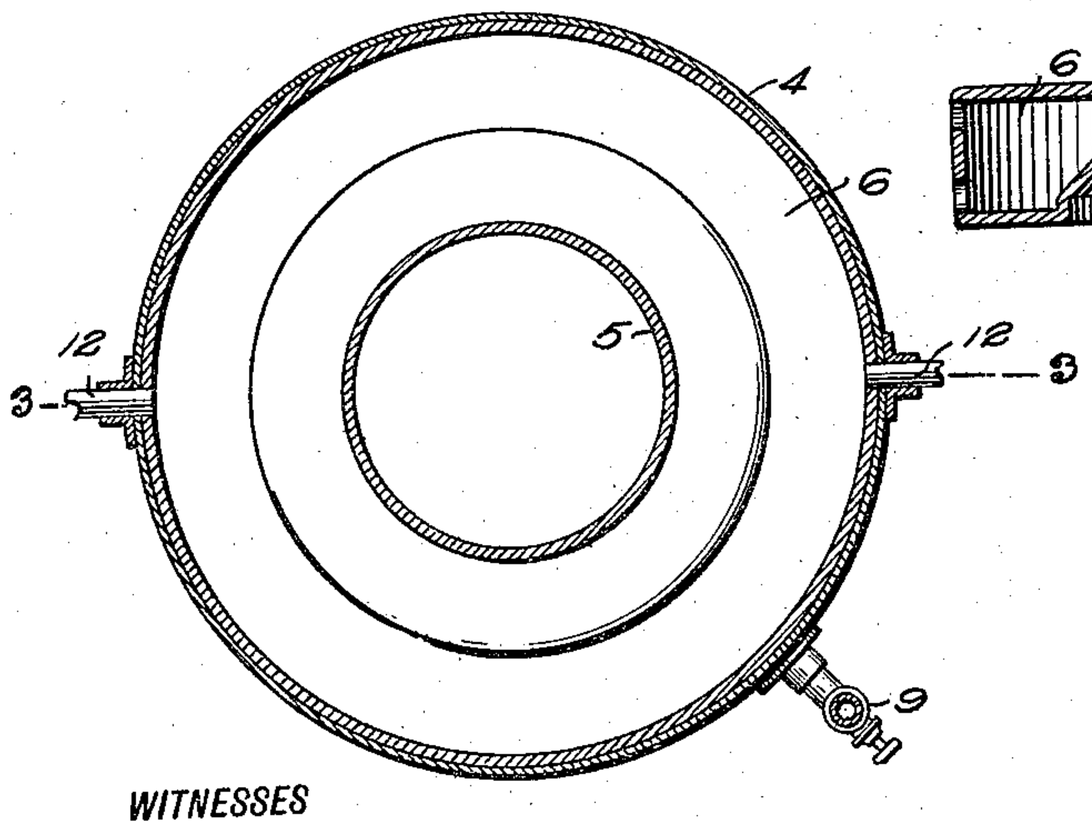
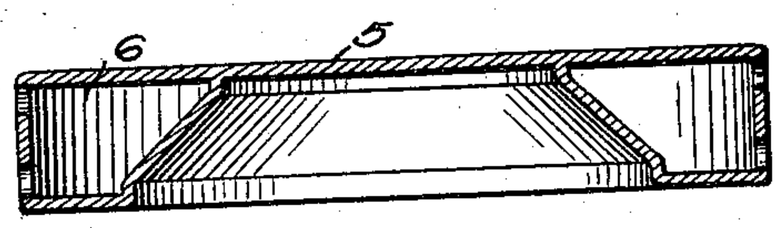


Fig. 3.



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COFFEE-MAKING APPARATUS.

1,167,199. Specification of Letters Patent. Patented Jan. 4, 1916.

Application filed June 15, 1915. Serial No. 34,228.

To all whom it may concern:

Be it known that I, ALEX MINTZ, a citizen of the United States, and a resident of the city of New York, borough of Manhattan, in the county and State of New York, have invented a new and Improved Coffee-Making Apparatus, of which the following is a full, clear, and exact description.

My invention relates to coffee-making apparatus, and has reference more particularly to an apparatus wherein the coffee-pots are heated by hot water supplied from a boiler which is external to the coffee-pots and whereby economy of burners and, therefore, of fuel is obtained.

The object of the invention is to provide a simple, inexpensive and efficient coffee-making apparatus in which the coffee-pots are heated by water confined in an annular jacket at the bottom of the boiler, and which water is caused to circulate about the coffee-pots to maintain the same hot.

With the above and other objects in view, the nature of which will more fully appear as the description proceeds, the invention consists in the novel construction, combination and arrangement of parts as herein fully described, illustrated and claimed.

In the accompanying drawings, forming part of the application, similar characters of reference indicate corresponding parts in all the views.

Figure 1 is an elevation, partly in section, of a coffee-making apparatus embodying my invention; Fig. 2 is a horizontal section on line 2—2, Fig. 1; and Fig. 3 is a vertical section on line 3—3, Fig. 2, showing only the water-jacket at the bottom of the boiler.

Referring to the drawings, 4 represents a vertical boiler of customary construction, the bottom of which is preferably formed by a casting 5 having an annular water-jacket 6. The boiler, if desired, can be provided with an independent bottom, and the annular water-jacket 6 can be secured thereto by any suitable means. It will be noted that the water in the boiler 4 is heated directly in the central part of the bottom of the boiler by a burner 7, the flame of which contacts directly with the central part of the casting. A conduit 8 controls the supply of water from the main to the boiler. A valve-controlled conduit 9 connects the boiler with the annular jacket 6 whereby the same is maintained filled with water. The jacket is in turn connected to coffee-pots 10 by a valve conduit 11 and a conduit 12 above the conduit 11. By means of the conduit 11 the coffee-pot can be filled with water from the boiler 4 through the jacket 6. The conduit 12 connects the upper portion of the coffee-pot with the jacket; and when the water in the jacket is heated and the valve-controlled conduits 11 are opened, a circulation of hot water is established from the jacket through the coffee-pots about the coffee urns or containers 13. A valve-controlled conduit 14 is provided from the boiler to the urns to supply boiling water from the boiler to the urns.

It is self-evident that after filling the coffee-pots 10 with hot water from the boiler through the jacket by means of the valve-controlled conduit 9, the same is closed and the heat supplied to the boiler is also supplied to the water-jacket 6, and, thus, a hot-water circulation is established through the coffee-pots connected with the jacket, whereby the coffee can be maintained hot without applying heat directly to the coffee-pots, as is customary at present. By this means only one single burner is utilized to maintain several coffee-pots hot. The annular jacket 6 at the bottom of the boiler, being of comparatively small capacity, gets hot quickly and facilitates the circulation of hot water from the coffee-pots through the jacket. The water-jacket 6 at the bottom of the boiler can also be utilized as an accelerator for boiling the water in the boiler by closing the valve conduits 11 and by opening the valve conduit 9. This will increase the heating surface of the boiler, as the water in the jacket will circulate in the boiler.

I claim:

1. In a coffee-making apparatus, the combination of a boiler having a water-jacket at the bottom thereof, means for heating the bottom of the boiler and the jacket thereof, a coffee-pot associated with the boiler, a valve-controlled conduit connecting the jacket to the bottom of the pot, a conduit connecting the top of the pot to the jacket, a valve-controlled conduit connecting the boiler to the jacket, a coffee container in said pot, and means for supplying water from the boiler to the container.

2. In a coffee-making apparatus, the combination of a boiler having an annular water-jacket below the bottom, a burner, the flame of which is adapted to contact with the bottom of the boiler and the jacket there-

at, a valve-controlled conduit connecting the jacket and the boiler, a coffee-pot, a valve-controlled conduit from the jacket to the bottom of the pot, a conduit connecting the jacket to the pot at a point above the valve-controlled conduit which connects the jacket to the pot, a coffee container in said pot, and a valve-controlled conduit for supplying the container with water from the boiler.

3. In a coffee-making apparatus, the combination of a boiler having a water jacket positioned below the bottom, a burner, the flame of which is adapted to engage the bottom of the boiler and the water-jacket thereat, a valve-controlled conduit from the boiler to the water-jacket, a coffee-pot, a coffee container in the pot, a valve-controlled conduit for supplying water from the boiler to the container, a valve-controlled conduit from the water-jacket to the pot, and a second conduit from the water-jacket to the pot connecting the two at points above the connection therebetween produced by the valve-controlled conduit.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

ALEX MINTZ.

Witnesses:
B. JOFFE,
PHILIP D. ROLLHAUS.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."