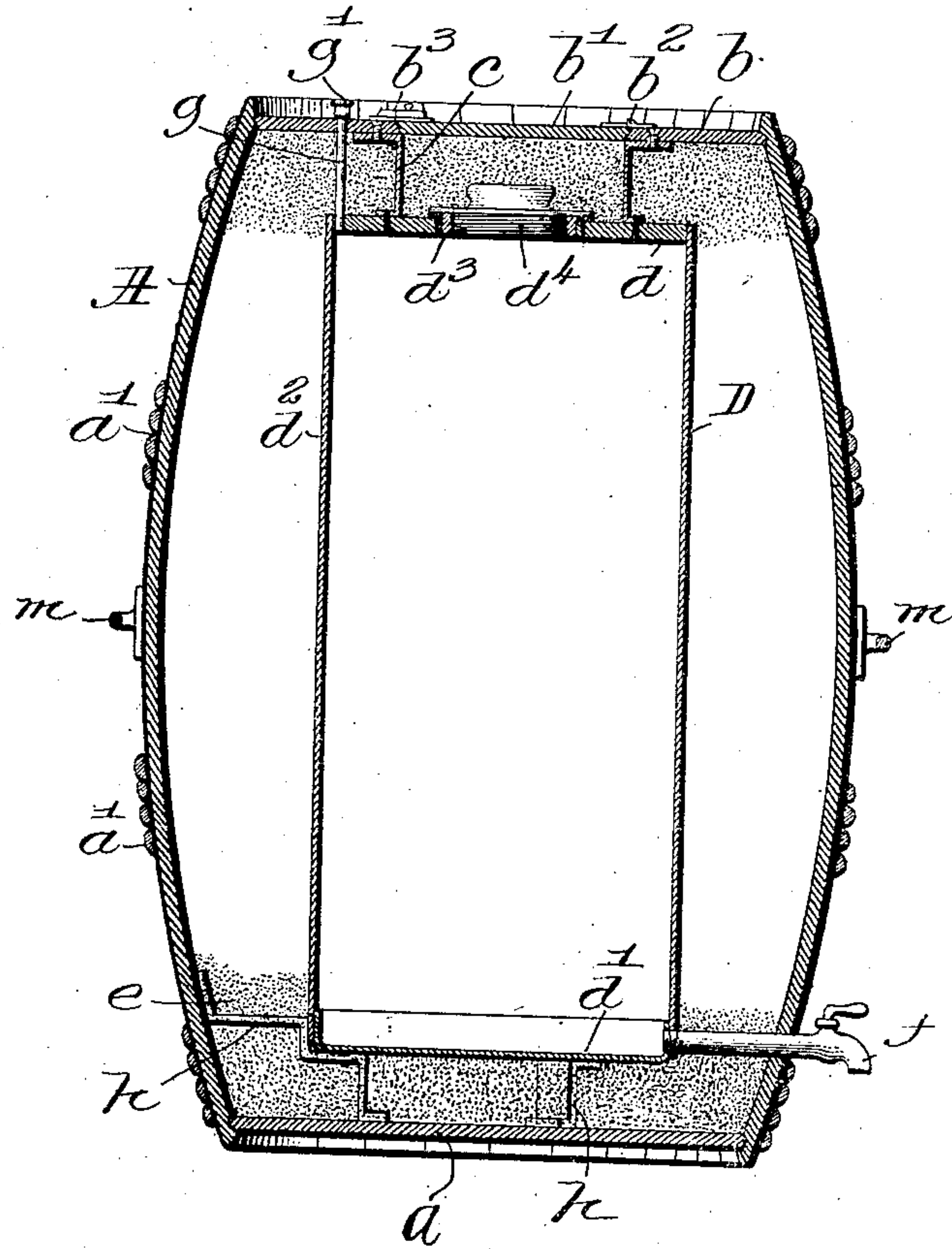


No. 898,186.

PATENTED SEPT. 8, 1908.

C. E. CLISBEE.
TANK FOR HOLDING HOT LIQUIDS.
APPLICATION FILED SEPT. 15, 1904.



Witnesses:
Fried. S. Grunhof.
Edward F. Allen.

Inventor.
Clarence E. Clisbee,
by Wesley S. Sargent
attys.

UNITED STATES PATENT OFFICE.

CLARENCE E. CLISBEE, OF REVERE, MASSACHUSETTS.

TANK FOR HOLDING HOT LIQUIDS.

No. 898,186.

Specification of Letters Patent.

Patented Sept. 8, 1903.

Application filed September 15, 1904. Serial No. 224,515.

To all whom it may concern:

Be it known that I, CLARENCE E. CLISBEE, a citizen of the United States, and a resident of Revere, in the county of Suffolk and State of Massachusetts, have invented an Improvement in Tanks for Holding Hot Liquids, of which the following description, in connection with the accompanying drawing, is a specification, like letters on the drawings representing like parts.

This invention has for its object the production of a tank for containing coffee and the like which it is desired to keep hot that it may be drawn from the tank hot.

The drawing represents my improved tank in vertical section.

Referring to the drawing A represents a wooden barrel composed of staves having at one end a head *a* and embraced by suitable hoops *a'*. The body of the barrel, the head referred to, and the hoops may be of any usual construction. The barrel has another head *b* which is designated the top head, said head being provided with a closure *b'* represented as connected to the main part of the head *b* by a suitable hinge *b''*, the closure being provided with suitable fastening means shown as a catch *b'''*.

The barrel has connected with its head suitable depending arms or a ring *c* the flange of which is suitably bolted to the under side of the head, and the lower end of the flange is suitably connected with the upper end *d* of the liquid receiver D comprising not only the head *d*, but a bottom plate *d'* and a cylindrical portion *d''*. The bottom plate and the head *d* are both removed from contact with the usual heads of the barrel, and between said bottom plates and heads and the body of the barrel I have applied a non-heat absorbing or conducting material *e* such, for instance, as asbestos, fossil meal, hair or any other usual material commonly employed as jacketing for hot pipes, etc.

The upper end *d* of the receiver has a threaded ring *d'''* in which is screwed a cap *d''''*, and the space between the top of this cap and the interior of the ring or partition *c* is filled in with non-heat conducting material of the same nature as that employed between the exterior of the liquid receiver D and the inner side of the barrel. In this way the liquid cylinder D is thoroughly incased in a resisting material against the action of

both heat and cold and the liquid can be retained hot for a very long time.

It will be noted that the partition *c* extends between the barrel head *b* and the upper end of the receiver D, and as said partition is an annular one it forms within itself a chamber which is separate from the space between the barrel and the receiver D at the sides of the barrel. With this construction access to the receiver D can be obtained by simply removing the closure *b'* from the barrel head and then removing the packing material contained within the annular partition *c* thereby to uncover the cap *d''''* which may then be removed. The partition *c* prevents any of the packing material outside of it from interfering at all with the operation of removing the plug *d''''*. When the plug *d''''* has just been removed the receiver D may be filled with liquid and the cap *d''''*, the packing material within the partition *c* and the closure *b'* replaced when the device is ready for shipment or to have the liquid drawn through the faucet *f*.

The upper end *d* of the liquid holder D is provided with a tube *g* that is extended outwardly through the head *b* of the barrel where it is provided with a screw cap *g'* to close the tube when necessary. When the coffee is to be drawn from the receiver, the cap *g'* is removed, thus enabling air to enter the receiver. Otherwise, as the coffee settled, a vacuum would be formed which would prevent the free flow outwardly of the coffee through the faucet.

The barrel at its interior, at the lower end, is provided with a series of feet *h*, one of which is shown in side elevation at the left in the drawing, and one in end view. There will be preferably three of these feet arranged as a tripod, and shaped to receive the lower end of the receiver and prevent the same from being moved laterally in the barrel. The barrel will be provided with suitable lifting handles *m*.

I find by the employment of a wooden barrel as the exterior covering of the metallic tank that liquid can be kept hot for a very much longer time than when the exterior is composed of metal as now common; and further a wooden barrel may be handled with less liability of damage thereto than a metal barrel or exterior. By the term "liquid" it is intended to cover not only coffee and tea,

but any other liquid which it is desired to keep hot while shipping it from the place where it is made and to be retained hot for a reasonable length of time, as during an evening.

Heretofore all tanks for holding hot liquids for shipment and use have presented metallic exteriors and the heads have been soldered thereto, and in case of leakage in the inner receptacle the solder holding the head of the outer tank in place had to be melted, and consequently the repair of leakage became a difficult matter.

In my invention where I employ a wooden exterior composed of staves it is only necessary to loosen the top hoops, slide them up a little and withdraw the head *b*, first removing the faucet from the receptacle.

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

The combination with a receiver having a

faucet at one end and a removable cap at the other end, of a wooden barrel-inclosing said receiver, said barrel having a removable head to permit the receiver to be set into the barrel, said head having an opening therein situated in line with the cap in the receiver, a closure for said opening in the head, an annular partition surrounding the cap of the receiver and the opening in the barrel head and secured to both said receiver and said barrel head, said partition forming a space between said cap and said barrel head, and non-heat conducting material in said space and also in the space between the receiver and the barrel.

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

CLARENCE E. CLISBEE.

Witnesses:

MORRIS MARTIN,
L. M. KINGSTON.