

No. 782,087.

PATENTED FEB. 7, 1905.

A. E. WAGGONER.
FIRE BUCKET.
APPLICATION FILED OCT. 19, 1903.

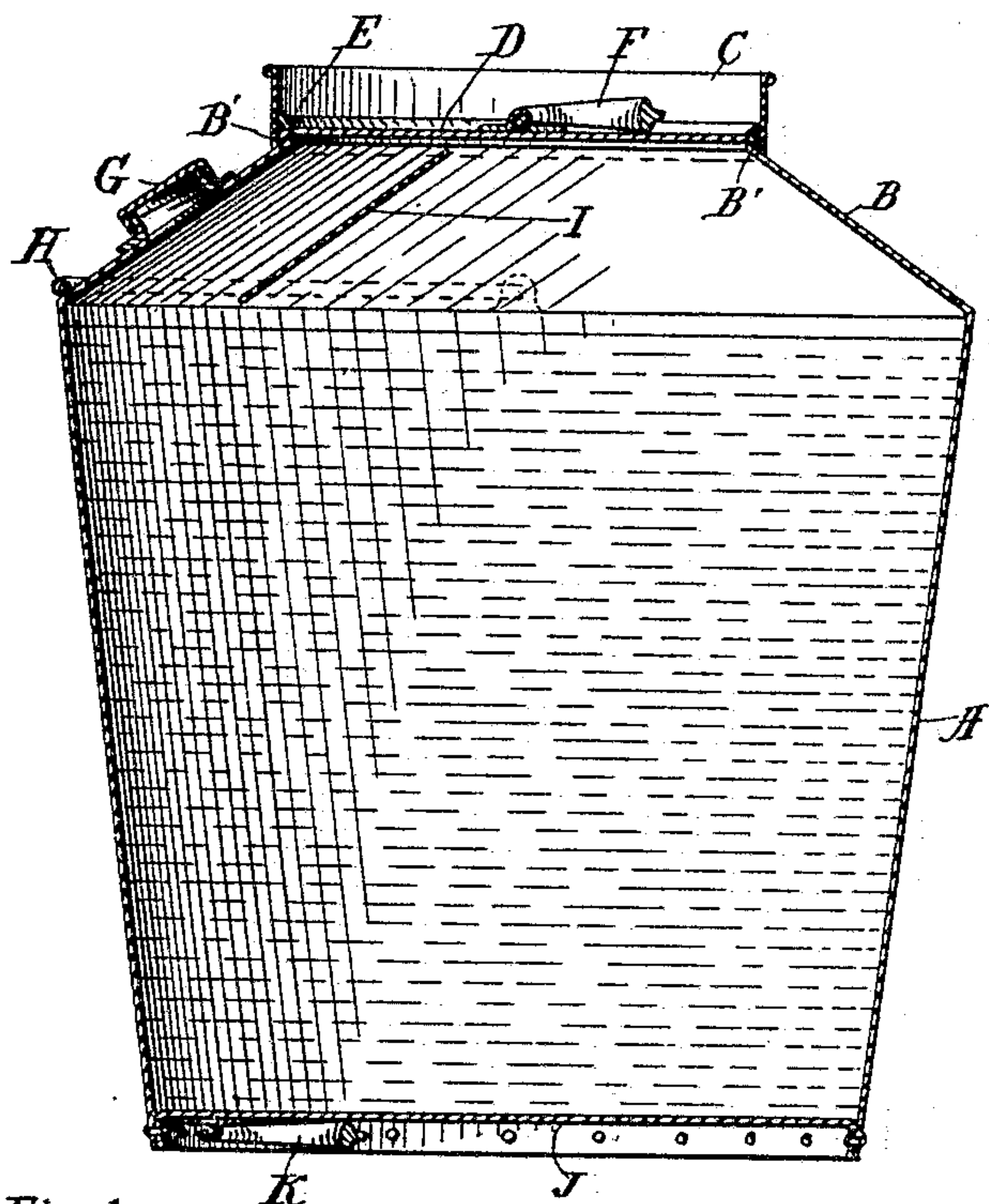


Fig. 1.

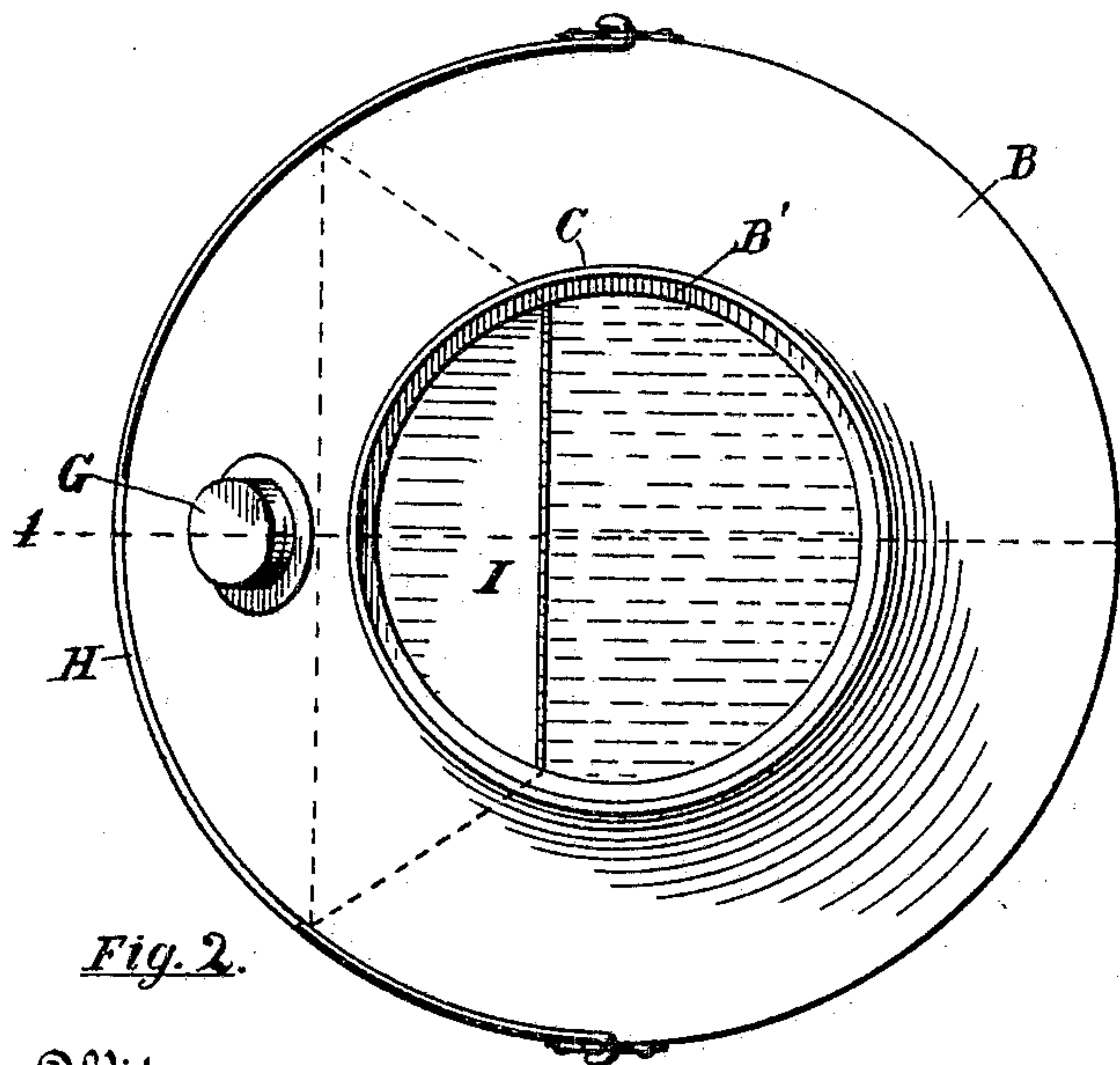


Fig. 2.

Witnesses
Ida Thiebout
Georgiana Chase

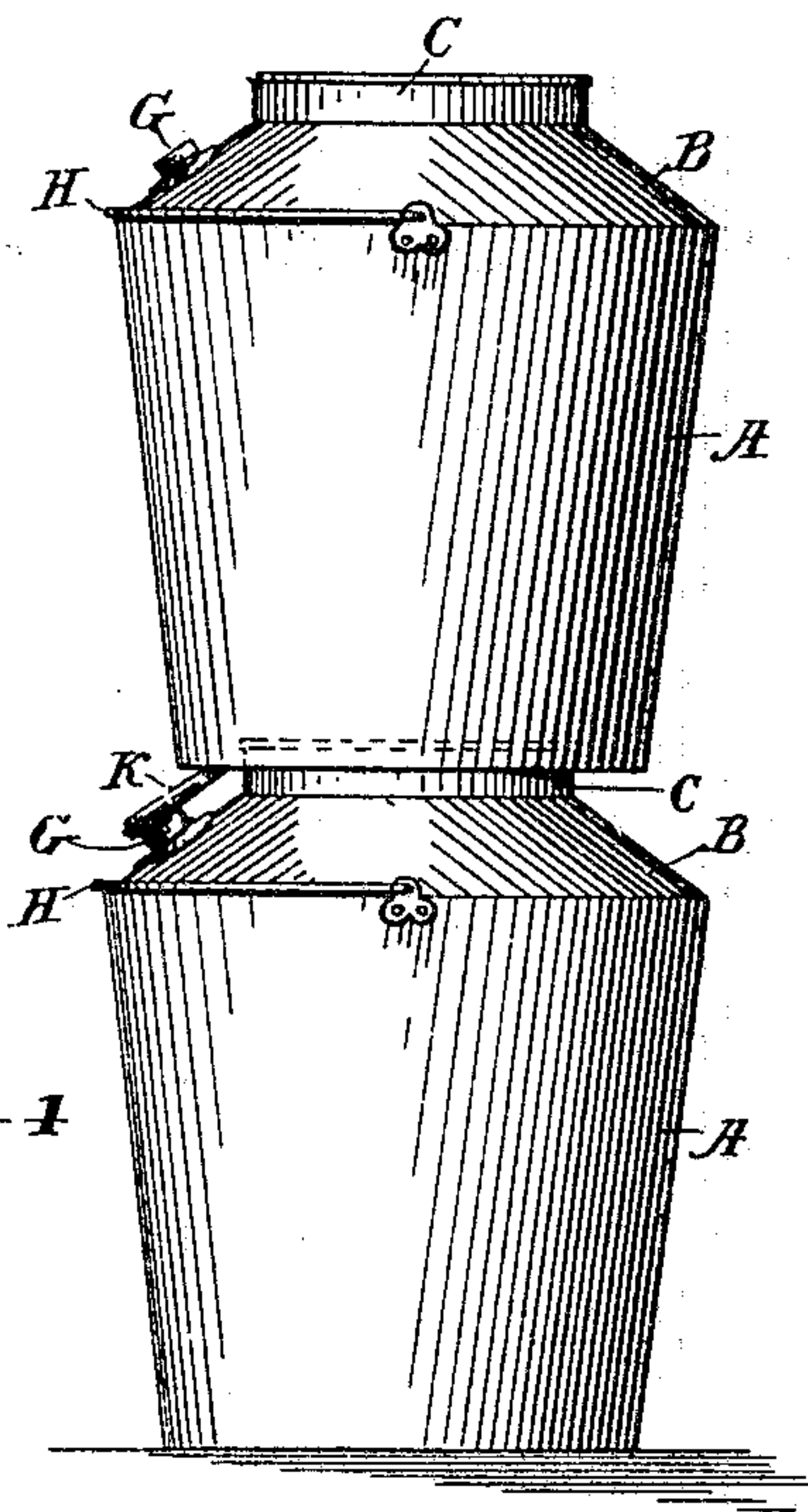


Fig. 3.

Inventor
Albert E. Waggoner
By Luther V. Moulton
Attorney

UNITED STATES PATENT OFFICE.

ALBERT E. WAGGONER, OF GRAND RAPIDS, MICHIGAN, ASSIGNOR TO
WAGGONER WATCHMAN'S CLOCK COMPANY, OF GRAND RAPIDS,
MICHIGAN, A CORPORATION OF MICHIGAN.

FIRE-BUCKET.

SPECIFICATION forming part of Letters Patent No. 782,087, dated February 7, 1905.

Application filed October 19, 1903. Serial No. 177,523.

To all whom it may concern:

Be it known that I, ALBERT E. WAGGONER, a citizen of the United States, residing at Grand Rapids, in the county of Kent and State of Michigan, have invented certain new and useful Improvements in Fire-Buckets; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to improvements in fire-buckets; and its object is to provide the same with certain new and useful features hereinafter more fully described, and particularly pointed out in the claims, reference being had to the accompanying drawings, in which—

Figure 1 is a vertical section of a device embodying my invention, taken on the line 1 1 of Fig. 2; Fig. 2, a plan view of the same with the cover removed; Fig. 3, a reduced elevation showing the arrangement of the buckets in series for storage or shipment.

Like letters refer to like parts in all of the figures.

A represents the body of the bucket, having any convenient form and dimensions; B, a truncated conical top to the same; C, a flange surrounding the opening of the top and of somewhat greater dimensions than said opening, whereby the inner edge B' of the top forms a grooved flange to receive the edge of the cover and the sealing material E, of soft wax or other suitable material, by which the cover is rendered air-tight, and at the same time the cover may be forcibly detached as occasion requires. D is the said cover, consisting of a suitable disk of sheet metal and provided with a pivoted handle F, adapted to turn down below the plane of the top of the flange C and to be turned to a vertical position to be used to remove the cover as occasion requires.

G represents a detachable cap closing an opening in the conical top B, through which opening the bucket may be charged with liquid as occasion requires.

H is a bail attached to the bucket in the usual manner.

I is a partition extending across the upper portion of the bucket and within the conical top B. This partition is preferably located in an inclined position and at one side of the axis of the top, substantially as shown, whereby the space within the top and above the liquid is divided into a larger passage at one side of the partition, through which passage the fluid contents of the bucket is discharged for the purpose of extinguishing a fire, and the space at the other side of said partition constitutes a smaller passage to permit the air to enter the bucket unobstructed by the outgoing fluid.

J is the bottom of the bucket, recessed upward a sufficient distance to form a chamber to receive a pivoted handle K and permit the bucket to stand upon the floor or other surface. The said handle is preferably located near one side of the bottom, whereby when turned downward it forms a suitable handle to be grasped by one hand of the operator, while the other hand engages the bail H, and thus enables the operator to suitably handle the bucket in discharging its contents. When the buckets are placed one above the other, as shown in Fig. 3, for storage or shipment, the handle K is turned downward and outward, and the flange C of the lower bucket will then engage the bottom of the superposed bucket and support the same. The buckets can thus be stacked one above the other, as shown in Fig. 3, for convenience in storage or shipment.

From the foregoing description the operation of my device will be readily understood. The detachable cover D is rendered air-tight to prevent evaporation of the contents of the bucket by means of any suitable sealing material placed in the angle of the downwardly-turned edge of the cover D and the flange C, the cover being supported upon the inner edge B' of the top and securely held thereby by the engagement of its downwardly-turned edge with the upper edge of the top B. This down-

wardly-turned edge also tends to strengthen and stiffen the cover D. When occasion to use the device arises, the sealing material E will yield and permit the forcible withdrawal 5 of the cover D by means of the handle F. The bail H and handle K are then grasped by the operator and the contents of the bucket discharged through the large opening at one side of the partition I. The outer air will 10 pass in through the passage at the other side of the partition, and thus prevent the forming of a vacuum in the bucket to retard the discharge of the contents and without obstructing the outgoing fluid. The contents of 15 the bucket can thus be thrown to a greater distance than would be the case if discharged through the same opening through which air must enter to take its place.

Having thus fully described my invention, 20 what I claim, and desire to secure by Letters Patent, is—

1. In a fire-bucket, the combination of a bucket, a truncated conical top to the bucket, a flange surrounding the opening of the top 25 and of greater diameter than the same, a cover having a downwardly-turned edge inserted in the angle formed by the top and flange, and

sealing material in the angle formed by the cover and flange.

2. In a fire-bucket, the combination of a 30 bucket having a recessed bottom, a pivoted handle attached to the bottom, and adapted to fold within the recess beneath the same, a truncated conical top to the bucket extending across the top and dividing the opening into 35 two unequal parts, a handle attached to the cover, and a bail attached to the upper part of the bucket.

3. In a fire-bucket, a bucket having a recessed bottom and a truncated conical top, a 40 flange surrounding the opening of the top, a cover closing the said opening, a handle on the cover and below the top of the flange, a handle pivoted to the bottom near one side thereof, and adapted to turn within the bottom recess, 45 and to turn downward and outward below the bottom of the bucket, and a bail attached to the bucket.

In testimony whereof I affix my signature in presence of two witnesses.

ALBERT E. WAGGONER.

Witnesses:

LUTHER V. MOULTON,
GEORGIANA CHACE.