(No Model.)

N. S. VALENTINE.

FLUID COOLER.

No. 322,081. Patented July 14, 1885.

Fig. 1

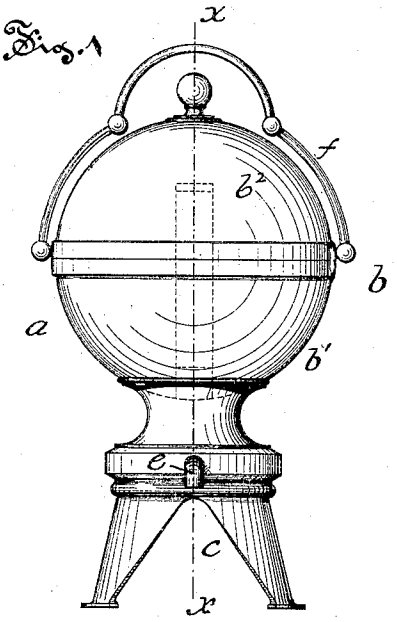


Fig. 2

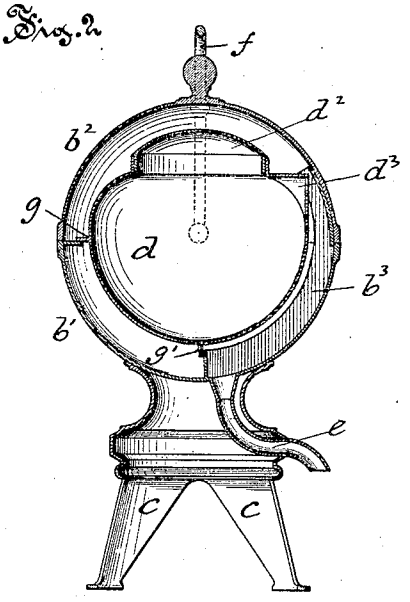


Fig. 3

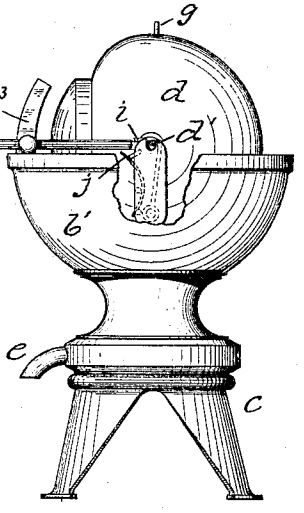


Fig. 4

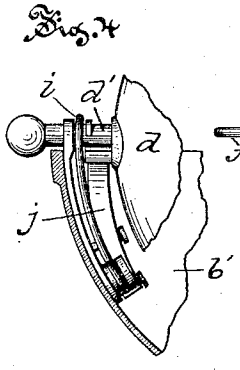
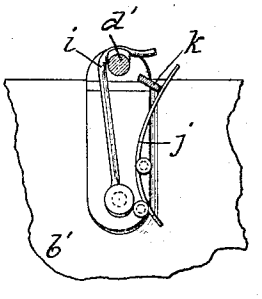


Fig. 5



Witnesses:
W. M. Goerkmans
H. P. Williams.

Inventor:
Newell S. Valentine
by Simonds & Burdett,
Attys.

N. PETERS. Photo-Lithographer, Washington, D. C.

UNITED STATES PATENT OFFICE.

NEWELL S. VALENTINE, OF HARTFORD, CONNECTICUT, ASSIGNOR TO THE HARTFORD SILVER PLATE COMPANY, OF SAME PLACE.

FLUID-COOLER.

SPECIFICATION forming part of Letters Patent No. 322,081, dated July 14, 1885.

Application filed February 28, 1885. (No model.)

To all whom it may concern:

Be it known that I, NEWELL S. VALENTINE, of Hartford, in the county of Hartford and State of Connecticut, have invented certain new and useful Improvements in Fluid-Coolers, of which the following is a description, reference being had to the accompanying drawings, where—

Figure 1 is a front view of an ice-pitcher embodying my improvement. Fig. 2 is a view in central vertical section of the same on plane denoted by line *x x* of Fig. 1. Fig. 3 is a detail side view of the device with the pitcher tipped, the cover of the shell removed, and part broken away to show construction. Fig. 4 is a detail view on enlarged scale, showing the means for holding the pitcher on its bearings, and also the spring for returning it to a vertical position. Fig. 5 is a detail view on enlarged scale of part of the shell, looking from the interior, and showing the hook and returning-spring.

My invention relates more particularly to the class of articles made of hollow ware that are adapted to hold and cool liquids, such as ice-pitchers; and my improvement consists in the combination of a tilting vessel inclosed within a stationary shell, and in certain details of the construction whereby liquids may be poured from the inner vessel by tilting the latter and without removing any part of the inclosing-shell, and in certain other details of construction, as more particularly hereinafter described.

In the accompanying drawings, the letter *a* denotes an ice-pitcher; *b*, a shell, preferably spherical and in two parts, the lower, *b'*, being supported on feet or standards *c*, and the upper, b^2, being removable. Within this shell is inclosed the tilting pitcher *d*, that is preferably spherical in shape, with trunnions *d'*, that extend through the shell, and are supported in bearings in the latter. The pitcher *d* is provided with a cover, d^2, that is tightly fitted or locked to the pitcher, and the latter has also in its upper part an outlet, d^3, from which the contained liquid may be poured by the tilting of the pitcher. Upon the inside of the shell and inclosing the path of the opening d^3 is a channel, b^3, formed by an open tube, with side walls and an end wall at the bottom of the shell, and this channel is extended by a pipe, *e*, that leads through the shell and base, and may be extended a slight distance beyond the base, the channel and pipe forming a discharge-spout.

To the trunnions is fastened some device, as the bail *f*, by means of which the pitcher may be tilted. The bail form is preferred, as it forms a convenient handle, by means of which the whole device may be lifted and carried from place to place; but any other suitable means for tilting the inclosed pitcher may be used, and be within the scope of my invention.

The pitcher bears at suitable points projecting lugs *g g'*, that by contact with the stops *h h'* limit the tilting movement of the pitcher.

The pitcher may be firmly attached to the shell by means of the hooks *i*, that are pivoted to the shell, and may be swung over the trunnions, as illustrated in Figs. 3, 4, and 5.

In order to return the pitcher to its upright position automatically, a spring, *j*, may be used. This latter is fastened to the shell and thrusts against a projection, *k*, on the outside of the pitcher.

This device, as a whole, may be made of any suitable material, and the outer surface left plain, or ornamented in any desired manner; and while the spherical shape of the shell and pitcher is preferred, the main feature of my invention is capable of embodiment in a variety of shapes, and I do not limit myself to the particular outline or construction herein shown.

I claim as my invention—

1. In combination, a tilting vessel inclosed within a stationary shell having a discharge-spout, and movable within the shell by means of a handle attached to a projecting part of the inner vessel, all substantially as described.

2. In combination, a stationary shell inclosing a rocking or tilting vessel, the vessel having an outlet and the shell bearing an inside channel, whereby the liquid poured from the vessel is conducted to a faucet or outlet through the shell, all substantially as described.

3. In combination, a stationary vessel or shell having a discharge-outlet, *e*, a tilting vessel, *d*, supported within the shell and hav-

ing a spout, d^3, and a spring or counterpoise, whereby the vessel is returned to its upright position after tilting, all substantially as described.

4. In combination, a stationary shell, a tilting vessel supported within the shell having a discharge-spout, and hooks or like means for fastening the vessel to the shell, all substantially as described.

5. In combination, an inclosing-shell, b, composed of parts b' and b^2, and having channel b^3, with outlet e through the shell, a tilting vessel, d, outlet or spout d^3, supported within the shell, and hooks i, all substantially as described.

6. In combination, the inclosing-shell b, removable and tilting vessel d, supported within the shell, with outlets d^3 and e through the shell and vessel, respectively, the hooks i, grasping the trunnions of the vessel, and the bail f, fast to the latter, all substantially as described.

7. In combination, the inclosing-shell b, with standard or feet and outlet e, hooks i, spring j, a removable and tilting vessel, d, supported and inclosed within the shell, with spout or outlet d^3, and bail f, all substantially as described.

NEWELL S. VALENTINE.

Witnesses:

CHAS. L. BURDETT,

H. R. WILLIAMS.