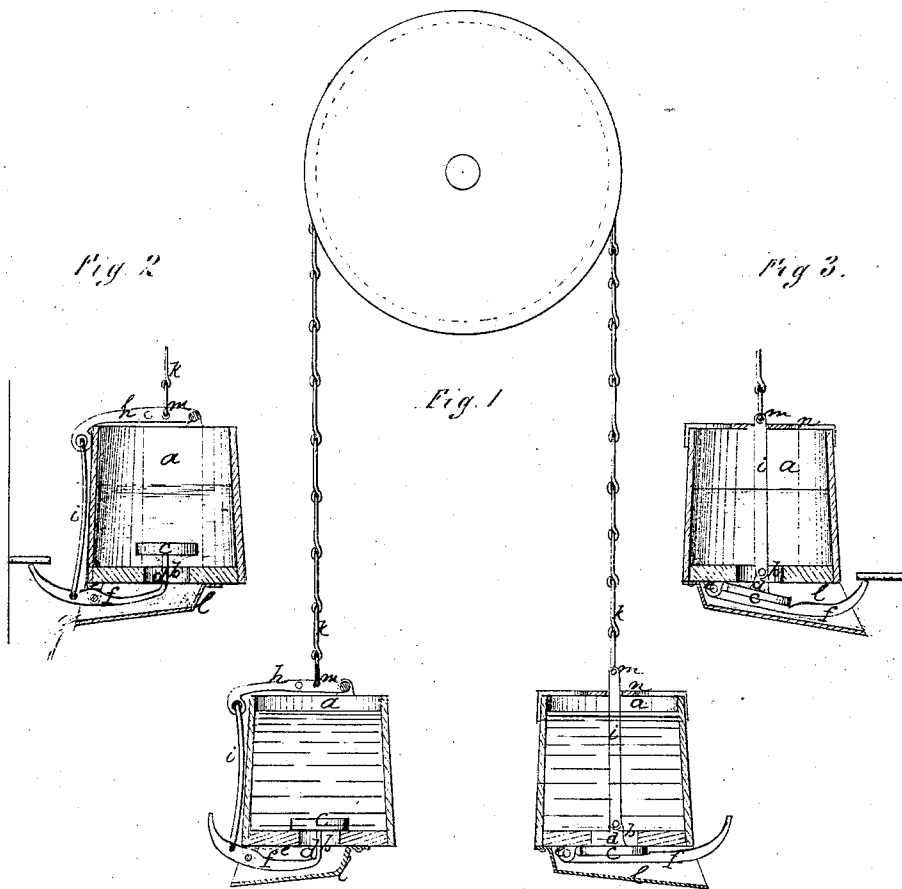


A. J. Clemmons,

Well Bucket.

No. 106,326.

Patented Aug. 16. 1870.



Witnesses.
G. O. Brown
M. E. Carter.

A. J. Clemmons, Inventor
by Geo. E. Brown
his Attorney.

United States Patent Office.

ALVEUS J. CLEMMONS, OF ABERDEEN, MISSISSIPPI.

Letters Patent No. 106,326, dated August 16, 1870.

IMPROVEMENT IN WELL-BUCKETS.

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, ALVEUS J. CLEMMONS, of Aberdeen, in the State of Mississippi, have invented a new and useful Improvement in Well-Buckets; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawing and letters of reference marked thereon making a part of this specification, in which—

Figures 1, 2, and 3 are sectional elevations of two varieties of my invention.

This invention has for its object the automatic emptying of buckets drawn full of water out of a well.

The invention consists of a bucket provided with a valve in its bottom, said valve being so arranged that the weight of the bucket keeps it closed until an arm connected with the valve strikes a tipping-rod placed within the curb above a trough at the mouth of the well, and is, by said tipping-rod, moved downward, and, by such movement, opens the valve, so as to discharge the contents of the bucket into the trough, the weight of the bucket instantly closing the valve again as soon as the bucket is lowered away from the tipping rod.

To enable those skilled in the art to make and use my invention, I now proceed to describe its construction and operation.

Similar letters in the drawing refer to like parts.

In the drawing, fig. 2 shows one variety of my invention, in which—

a is the bucket.

b, an orifice in its bottom.

c, a valve within the bucket.

d, a stem projecting downward from the valve through the orifice *b*.

f, a lever pivoted between lugs *e*, which extend downward from any convenient point of the bottom of the bucket, to the inner end of which lever the stem *d* is rigidly attached, the outer part of the lever being turned upward and sharpened at its end, so that it may readily catch under the tipping-rod.

h, an arm, forked at one end, and pivoted, by means of its forks, in ears which extend from the upper end of the bucket.

i, a rod which connects the arm *h* with the lever *f*.
k, the cord or chain which passes over the windlass above the mouth of the well, and is fastened to the arm *h* at *m*.

l, a hood secured to the bottom of the bucket, inclosing the stem *d* and lever *f*, and serving to conduct water, when the valve *c* is lifted, from the bucket to the trough.

The arm *h* being held by the chain *k*, the bucket falls away from it as far as possible. The outer end of the lever *f*, being connected with the arm *h*, is drawn upward thereby. The inner end of the lever *f* is consequently drawn downward, and the valve *c* made to close the aperture *b*. The outer end of the lever, striking the tipping-rod, is lowered, and the valve raised. Thereupon water runs out of the bucket into the hood *l*.

In fig. 3 the valve *c* is below, instead of above the bottom of the bucket, and the connecting-rod *i* within, instead of outside the bucket.

The connecting-rod is jointed, at its lower extremity, to the upper end of the valve-stem *d*.

Across the top of the bucket is secured a spider, *n*, through an orifice in the center of which the rod *i* passes. To the top of the rod is fastened the chain *k*, by which the valve is drawn directly against the bottom of the bucket, thus closing the orifice *b*.

The arm *f* is secured, at its inner end, to the valve, and operates similarly to the arm *f* of fig. 2.

Claim.

The combination of the bucket *a*, arm *h*, lever *f*, valve *c*, and connecting-rod *i*, substantially as specified.

ALVEUS J. CLEMMONS.

Witnesses:

FRANK SAUNDERS,
SAMUEL J. LANDES.