C. M. MINOR.

WELL-CURB.

No. 170,290. Patented Nov. 23, 1875.

Fig. 1.

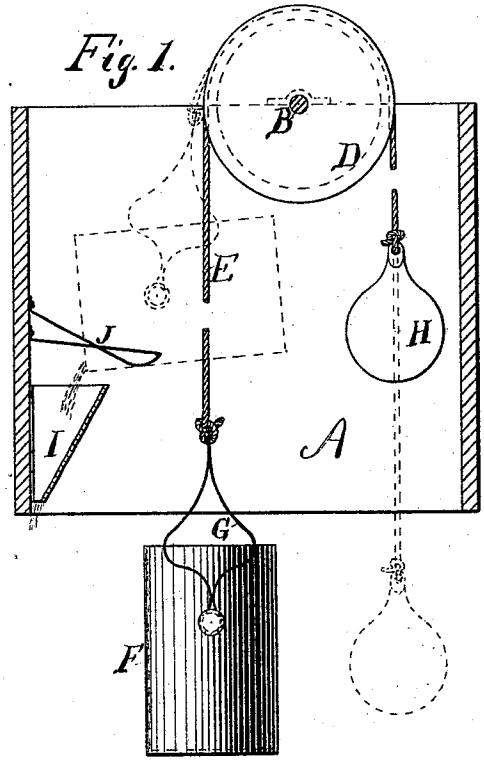


Fig. 3.

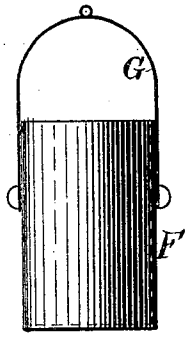
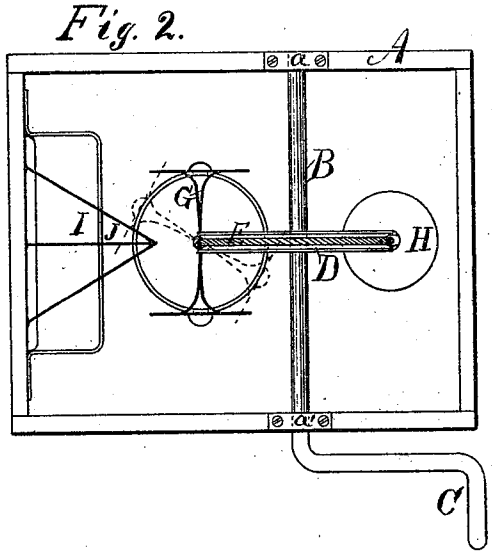


Fig. 2.



Witnesses;
George A. Adams.
Henry L. Wright.

Inventor;
Charles M. Minor.
Per Rosewell Thompson,
Atty.

UNITED STATES PATENT OFFICE.

CHARLES M. MINOR, OF BRIDGEPORT, CONNECTICUT.

IMPROVEMENT IN WELL-CURBS.

Specification forming part of Letters Patent No. **170,290**, dated November 23, 1875; application filed October 8, 1875.

To all whom it may concern:

Be it known that I, CHARLES M. MINOR, of Bridgeport, in the county of Fairfield and State of Connecticut, have invented a new and useful Improvement in Well-Curbs; and I do hereby declare the following to be a full, clear, and exact description of the construction and operation of the same, reference being had to the accompanying drawings making a part of this specification.

The object of my invention is to bring the bucket, which is attached to a well-curb, to a proper position to empty the water, which has been drawn up in the same, into the trough of said curb, when a rope or chain of ordinary construction is attached to said bucket; and my improvement consists in attaching a bail of peculiar construction to said bucket, and constructing a tipping-rod of triangular form, and attaching the same to the curb in such a position as to insure the proper position of said bucket when said bail comes in contact with said tipping-rod, as will hereinafter appear.

I will now describe the construction and operation of my improved curb and water-drawer, with reference to the accompanying drawing.

Similar letters of reference indicate corresponding parts.

Figure 1 is a sectional elevation of the curb, with devices connected therewith; and Fig. 2 is a plan of the same. Fig. 3 is a detached view of the bucket, with bail attached.

A is the frame of the curb. B is a shaft, fitted to revolve in bearings *a a'* on the top of the curb. C is a crank attached to the end of the shaft B. D is a pulley secured to the shaft B. E is a rope passing over the pulley D in a V-shaped groove in the same. F is the bucket, and G is the bail, pivoted to the sides of the same, and to the center of which is attached the rope E. H is a weight attached to the opposite end of said rope. I is the trough attached to the curb; and J is the triangular tipping-rod also attached to the curb over said trough.

I will now describe the practical operation of my improved curb, with reference to the accompanying drawings.

It is to be understood that this curb is to be placed over a well of ordinary construction in the usual manner, and when it is desired to draw water from said well the bucket F is let down to the water by means of the crank C. After said bucket is filled with water the crank is turned in the opposite direction, causing the bucket to rise to the top of the well into the curb, and if by chance the bucket rises to the curb in a wrong position to empty the water in the same the cam-shaped edge of the bail comes in contact with the side of the triangular tipping-rod in its ascent, as shown in the drawing, Fig. 2, and turns the bail and bucket in a proper position to empty the water in said bucket, in the manner shown in the drawing, Fig. 1.

The peculiar form of the tipping-rod causes the bucket to be elevated to more than a horizontal position when tipped by said rod, as shown in the drawing, Fig. 1.

The common rope or chain used admits of the use of a pulley, which is large in diameter, thus increasing the speed of the bucket from one foot to each revolution with the drum in common use to one yard to each revolution, and at the same time lessening the power to raise said bucket, the weight at the opposite end of the rope being about the same as that of the bucket and water.

In order to use a rope or chain of ordinary construction, I cut a V-shaped groove in the periphery of the pulley to prevent said rope or chain from slipping in the same.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

In a well-curb, the combination of the V-shaped pulley D with the common rope or chain E and the cam-shaped bail G, attached to the bucket F, and the triangular-shaped tipping-rod J, attached to the curb over the trough I, all constructed and arranged substantially as shown, and for the object set forth.

CHARLES M. MINOR.

Witnesses:
SAML. C. KINGMAN,
HENRY L. WRIGHT.