(No Model.)

W. D. MARTIN, Sr.

WELL BUCKET.

No. 603,569. Patented May 3, 1898

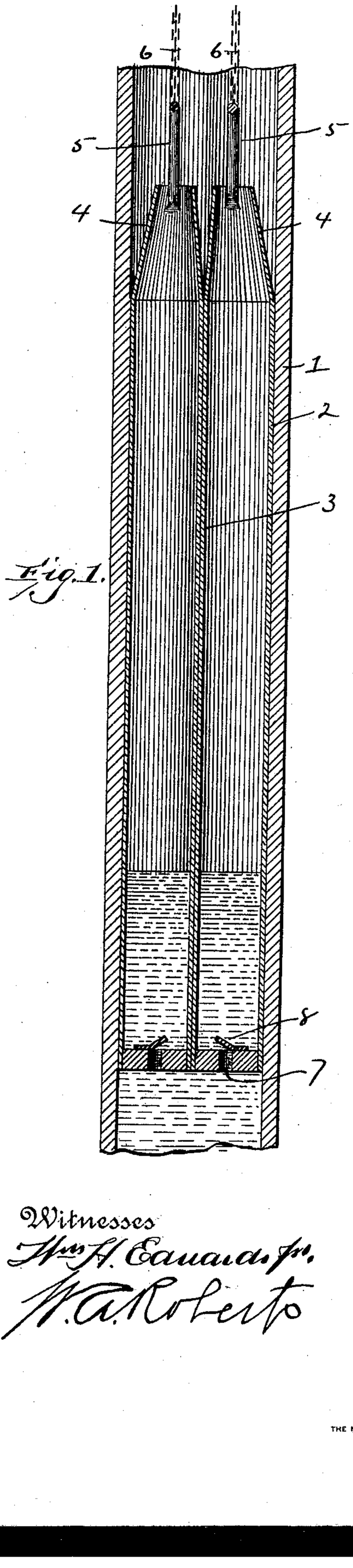


Fig. 1.

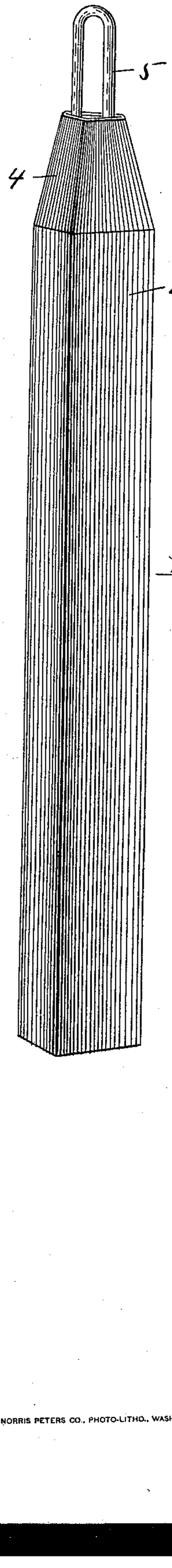
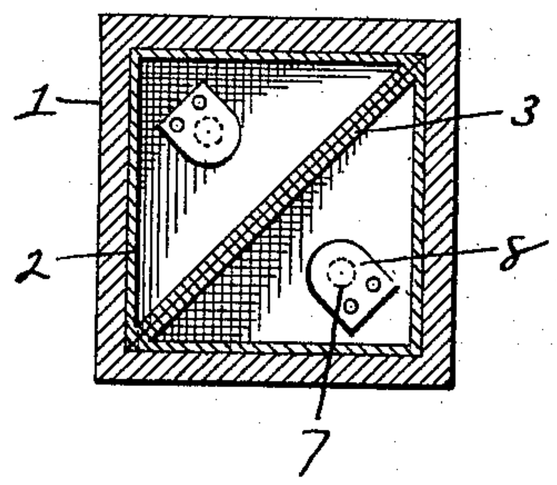


Fig. 2.

Fig. 3.



Witnesses
Wm. H. Edwards Jr.
W. A. Roberts

Inventor
W. D. Martin Sr.
By Glascock & Co.
Attorneys.

UNITED STATES PATENT OFFICE.

WILLIAM DAWSON MARTIN, SR., OF JACKSON, TENNESSEE.

WELL-BUCKET.

SPECIFICATION forming part of Letters Patent No. 603,569, dated May 3, 1898.

Application filed November 13, 1897. Serial No. 658,480. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM DAWSON MARTIN, Sr., a citizen of the United States, residing at Jackson, in the county of Madison and State of Tennessee, have invented certain new and useful Improvements in Well-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 has relation to sectional buckets; and it consists in the novel construction and arrangement of its parts, as hereinafter described.

The object of the invention is to provide sectional buckets especially adapted to be used on driven or bored wells, and in the form of the invention as shown in the accompanying drawings the buckets are especially adapted to be used in wells having angular curbing.

In the accompanying drawings, Figure 1 is a transverse section of the well, showing the buckets in the act of descending simultaneously and taking in water. Fig. 2 is a perspective view of one of the buckets. Fig. 3 is a transverse sectional view of the well and the sectional buckets located therein.

As above stated, the buckets are especially adapted to be used in square wells, and in the drawings 1 represents the curbing of the well. Each of the buckets is provided with the sides 2 2, said sides being at right angles to each other, and the side 3, the said side 3 forming the hypotenuse of the triangle and connecting the ends of the two sides 2 2. The side 3 is adapted to extend from one corner of the curbing to the opposite diagonal corners, as illustrated in Fig. 3. The two buckets are similar in their construction, the upper ends of the sides 2 2 and 3 converging slightly, as at 4 in Figs. 1 and 2, and the upper ends of the buckets are open, and the bails 5 enter the said openings and are secured to the inner sides of the converging sections 4 by any suitable means. The chains 6 are attached to the bails 5. The bottom of each bucket is provided with a perforation 7, above which is located a valve 8. As the buckets descend the water passes up through the perforations 7, opens the valves 8, and enters the interior of the buckets. When the buckets are filled, they are drawn up and the valves 8 immediately shut, and thus the water contained within the buckets is elevated. The two buckets are adapted to be operated alternately, and the tapering sections 4 at the upper ends of the buckets will guide the ascending bucket past the descending bucket; also, the corners of the curbing will assist in retaining the buckets in their proper positions. The buckets when together completely fill the interior of the curbing 1, and as the buckets are made of thin sheet metal a maximum amount of water is elevated, as the material in the construction of the buckets takes up but little room. When the buckets arrive at the top of the curbing, the water is poured out through the openings at the upper ends of the buckets.

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

1. In combination with a well having a rectangular curbing, a plurality of buckets, each bucket in its cross-section being in the shape of a right-angle triangle, each bucket having in its bottom a valved water-inlet and a suitable means for operating the buckets.

2. In combination with a well having a square curbing, a plurality of buckets, each bucket being in the shape of a right-angle triangle, each bucket having in its bottom a suitable valved water-inlet, the upper end of each bucket having converging sections, a suitable means for operating the buckets.

3. In combination with a well having a squared curbing, a plurality of buckets, each bucket in its transverse section being in the shape of a right-angle triangle, each bucket having in its bottom a valved water-inlet, each bucket having at its upper end converging sections, the upper ends of said sections terminating into an opening into the interior of the bucket, a bail passing through said opening and being secured to the inner surfaces of the bucket, a suitable means for operating the buckets.

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

WILLIAM DAWSON MARTIN, SENIOR.

Witnesses:
W. B. HAYS,
JOHN MAGEVNEY.