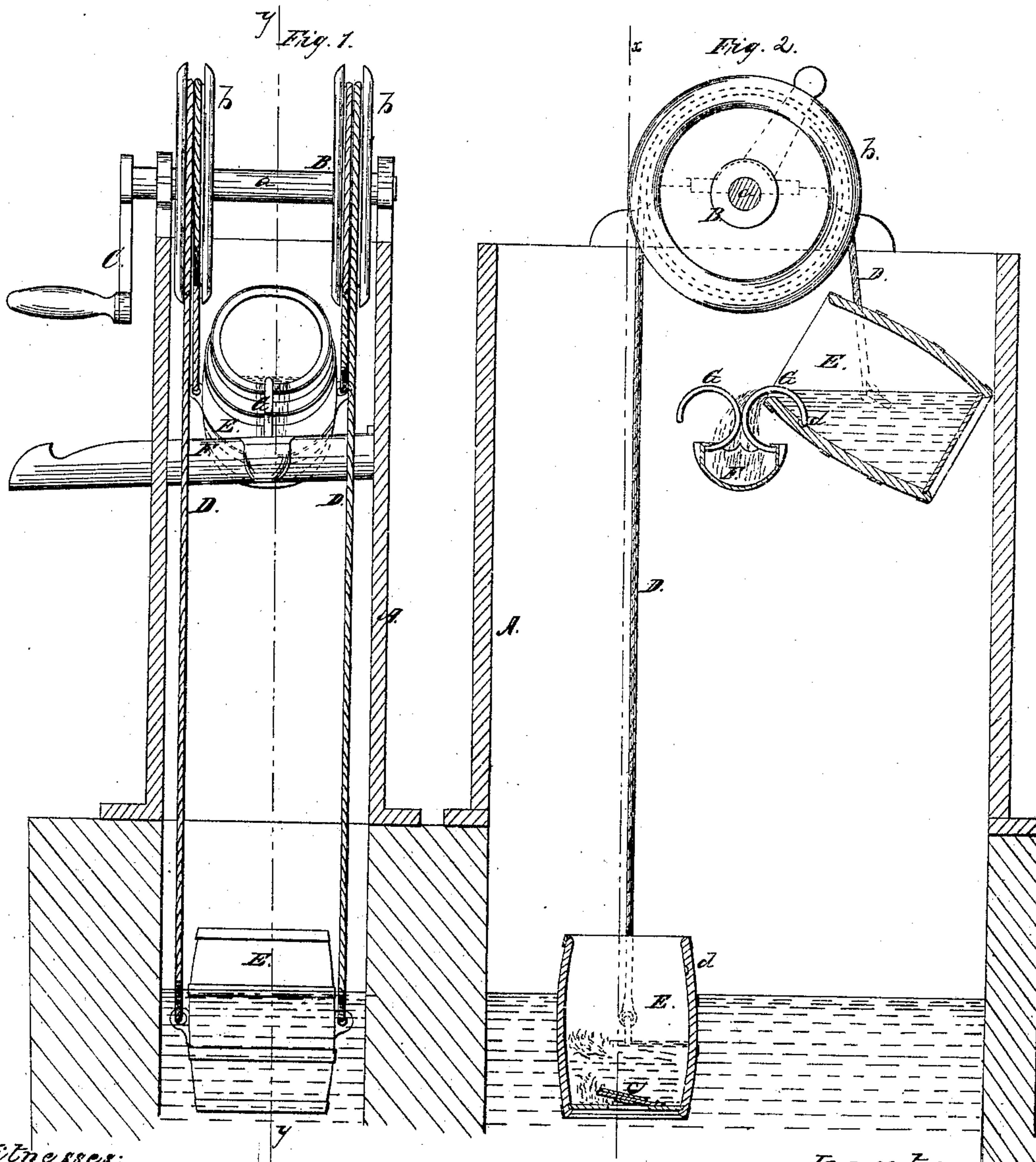


J. M. Perkins
Windlass Water Elevator.

N^o 3,618.

Patented Mar. 5, 1861.



Witnesses:
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UNITED STATES PATENT OFFICE.

JOHN M. PERKINS, OF CLEVELAND, OHIO.

WATER-ELEVATOR.

Specification of Letters Patent No. 31,618, dated March 5, 1861.

To all whom it may concern:

Be it known that I, JOHN M. PERKINS, of Cleveland, in the county of Cuyahoga and State of Ohio, have invented a new and Improved Water-Elevating Device; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the annexed drawings, making a part of this specification, in which—

Figure 1 is a vertical section of my invention taken in the line *x, x*, Fig. 2. Fig. 2 is a vertical section of the same, taken in the line *y, y*, Fig. 1.

Similar letters of reference indicate corresponding parts in the two figures.

This invention has for its object the drawing of water for domestic purposes by a very simple arrangement of means, which may be operated with the greatest facility, be cheaply constructed and applied, and not liable to get out of repair nor become deranged by use.

The invention consists in the employment or use of two buckets connected by ropes or chains to a windlass in such a way that one bucket will rise as the other falls, and using in connection with the buckets thus arranged a spout or discharge trough provided with curved rods to serve as stops and placed in such relation with the buckets as to tilt the same as they reach their culminating point, and discharge their contents into the discharge spout.

To enable those skilled in the art to fully understand and construct my invention I will proceed to describe it.

A represents a well-curb which may be of quadrilateral form, and made of any suitable dimensions. This curb A, has a windlass B, placed on its upper part, said windlass being formed of a shaft *a*, and two wheels or pulleys *b, b*, secured permanently thereon. The shaft *a*, has a crank C, at one end of it, and the pulleys *b, b*, have each a rope or chain D, passing around them.

To the ends of the ropes or chains D, buckets E, E, are attached. These buckets may be provided each with a valve *c*, opening upward, and the ropes or chains D, D, as the windlass is turned raise one bucket E as they lower the other.

Within the curb A, there is placed a water discharge spout F. This spout is slightly

inclined, as shown in Fig. 1, and is directly under the shaft *a*, of the windlass B, and is in the same plane with it. To each side of the spout F, there is attached a curved rod G. These rods may be described as being bent in circular form like hooks and their outer ends project over or beyond the sides of the spout F, as shown clearly in Fig. 2. The hooks or curved rods G, are at the center of the curb A, and in line with the paths of the movement of the buckets.

Each bucket E, has a recess *d*, made in its inner side, said recesses being about in line with the ends of the hooks or curved rods G. The buckets E, are suspended to the ropes or chains D, at each side at a trifle above their centers—see Fig. 1.

The operation is as follows:—By turning the windlass B, one bucket is elevated as the other descends, the lower bucket fills as it enters the water, the valve *c*, if the bucket is provided with one, opening upward. If no valve is provided the bucket tilts and fills. As the rising bucket approaches its culminating point the hook G, catches into its recess *d*, and the bucket still rising is tilted until it assumes a horizontal position, and the contents are discharged into spout F. When the bucket is in a horizontal position its ropes or chains D, D, are about in a vertical position and the hook G, which is engaged with it prevents the bucket being raised beyond a certain point.

The whole device it will be seen is extremely simple and efficient, and there are no parts liable to get out of repair nor become deranged by use.

I am aware that well buckets have been attached to windlasses in such a way that one bucket will balance the other, and one rise as the other descends, and I therefore do not claim broadly such device; but

I do claim as new, and desire to secure by Letters Patent,

The bucket E, E, attached to the windlass B, as shown and provided with the recesses *d*, in connection with the spout F, provided with the curved rods or hooks G, arranged in such relation with the buckets to operate as and for the purpose set forth.

JOHN M. PERKINS.

Witnesses:

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