

T. L. Morris,

Water Elevator.

No. 106,189.

Patented Aug. 9, 1870.

Fig 1

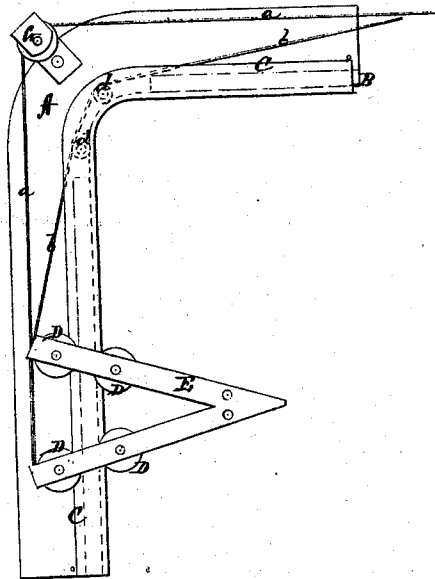


Fig 2



Witnesses

Harry King.  
Geo. Everts

Inventor

Thomas L. Morris.  
per Alexander Mason  
Atty.

# United States Patent Office.

THOMAS LAFEVDA MORRISS, OF CLAYPOOL, KENTUCKY.

Letters Patent No. 106,189, dated August 9, 1870.

## IMPROVEMENT IN WATER-ELEVATORS.

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, THOMAS LAFEVDA MORRISS, of Claypool, in the county of Warren and in the State of Kentucky, have invented certain new and useful Improvements in Water-Elevators; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawing, and to the letters of reference marked thereon making a part of this specification.

The nature of my invention consists in the construction and arrangement of a "water-elevator," for raising water out of deep wells, as will be hereinafter fully set forth.

In order to enable others skilled in the art to which my invention appertains to make and use the same, I will now proceed to describe its construction and operation, referring to the annexed drawing, in which—

Figure 1 is a front view, and

Figure 2 is a cross-section of my apparatus.

A represents the timber, which extends down into the well, and which is, above the well, curved, extending horizontally to one side.

On the front side, along the inner edge of the timber A, is secured a strap or bar, B, upon which is screwed the metal plate C, of sufficient width to project on each side, so as to give room for the grooved wheels D D to work.

The grooved wheels D D are placed in suitable bear-

ings on a triangular frame or carriage, E, pointing inward, as shown in fig. 1.

The wheels are placed so that two clasp the track on each edge, thereby obviating the necessity of making more than one track.

A rope or chain, *a*, passes from the carriage E, over a pulley, G, placed on the outer edge of the timber A, at the bend thereof; and another rope or chain, *b*, passes from the same point on the carriage, over small rollers *d d* placed between the timber A and the track C in the bend, the bar B being cut out at this point to admit said rollers.

The water-bucket is suspended from the inner end of the carriage E in such a manner that it will swing around when the carriage turns the curve, both going up and down.

Having thus fully described my invention,

What I claim as new, and desire to secure by Letters Patent, is—

The combination of the timber A, bar B, track C, rollers D D, carriage E, roller G, cords or chains *a b*, and rollers *d d*, all constructed and arranged substantially as and for the purposes herein set forth.

In testimony that I claim the foregoing, I have hereunto set my hand this 17th day of May, 1870.

THOMAS LAFEVDA MORRISS.

Witnesses:

FRANK PORTER,  
WILLIAM E. SEARS.