A. F. HUMBLE.
Water-Elevator.

No. 214,393. Patented April 15, 1879.

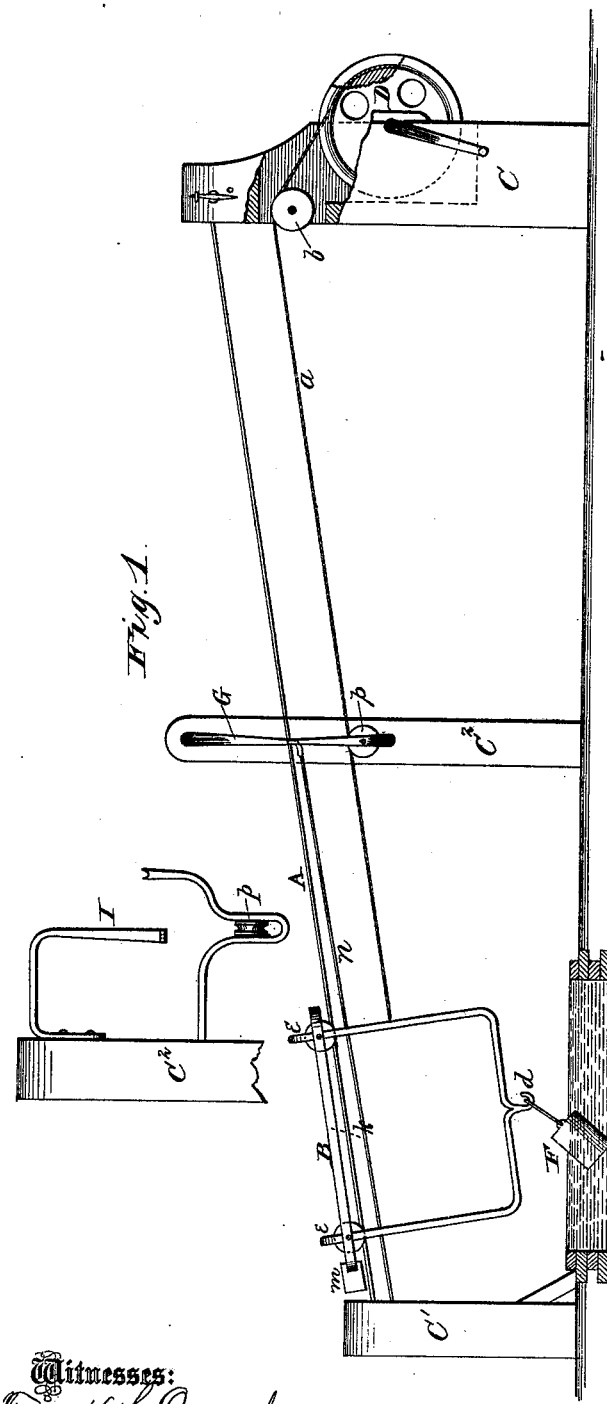

Fig. 1.

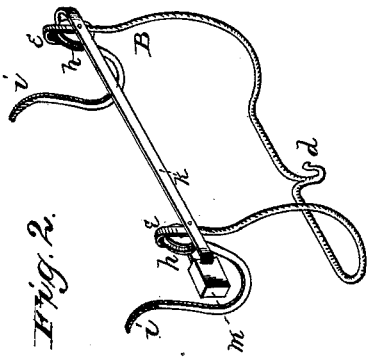

Fig. 2.

Witnesses:
Franck L. Durand
C. H. Watson

Inventor
Alexander F. Humble.
Per C. H. Watson & Co Attorneys.

UNITED STATES PATENT OFFICE.

ALAXANDER F. HUMBLE, OF McMINNVILLE, TENNESSEE.

IMPROVEMENT IN WATER-ELEVATORS.

Specification forming part of Letters Patent No. **214,393**, dated April 15, 1879; application filed January 30, 1879.

To all whom it may concern:

Be it known that I, ALAXANDER F. HUMBLE, of McMinnville, in the county of Warren and State of Tennessee, have invented certain new and useful Improvements in Water-Elevators; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

My invention relates particularly to that class of water-elevators which are used for drawing water from a well to the house; and it consists more especially in the construction of the carriage and the means for preventing the carriage from falling off the track, as will be hereinafter more fully set forth.

In the annexed drawings, to which reference is made, Figure 1 is a side elevation, partly in section, of my invention. Eig. 2 is a perspective view of the carriage.

A represents the track upon which the carriage B moves, which track may be a rod or wire cable, and is supported upon or in posts C C^1, as shown. The post C^1 should be low enough, so that the bucket suspended from the carriage will, when the carriage is at this point, get into the water in the well; and the post C may be of any desired height, so as to bring the carriage to a proper position for emptying the water. To this post C is connected a suitable windlass, D, to which the well-rope *a* is attached, the other end of said rope being attached to the carriage B and passing over a pulley, *b*, in the slot of the post C.

The carriage B consists of a metal rod, bent as shown in Fig. 2, to form a lower center-bar, with hook *d*, for attaching the bucket F. The ends of the rod are turned upward, and then bent to form suitable sockets or boxes at *e e* for the insertion of rollers *h h*, which are mounted on pins or bolts therein. The ends of the rod then form the hooks *i i*, as shown. At the boxes *e* the two ends of the rod are connected by a bar, *k*, to keep them in proper position, and to one end of this bar is attached a bumper, *m*, to strike against the post C^1 when the carriage runs down the track B.

Between the posts C C^1 is another post, C^2, and this post is connected with the post C^1 by a rod or wire, *n*, so arranged that when the carriage passes the post C^2 downward the rod *n* will lie in the hooks *i i* of the carriage. The object of this is to prevent the carriage from tilting over from the track while the bucket is being filled from the well.

To the post C^2 is attached a bracket, G, with roller *p*, over which the well-rope will pass, and an L-shaped arm, I, is attached to the post, above this bracket, to prevent any disarrangement of the carriage.

When the bucket is filled from the well the carriage is moved, by means of the windlass, up the track to the house and emptied, and by simply loosening the windlass the carriage may be allowed to go back to the well by its own gravity.

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

1. In a water-elevator, the carriage B, constructed as described, with the hooks *i i*, in combination with the auxiliary rod or wire *n*, for the purposes herein set forth.

2. The combination of the track A, carriage B, with hooks *i i*, windlass E, well-rope *d*, and auxiliary rod or wire *n*, substantially as and for the purposes herein set forth.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in presence of two witnesses.

ALAXANDER F. HUMBLE.

Witnesses:

A. SMITH,

JOHN L. DAVIS.