

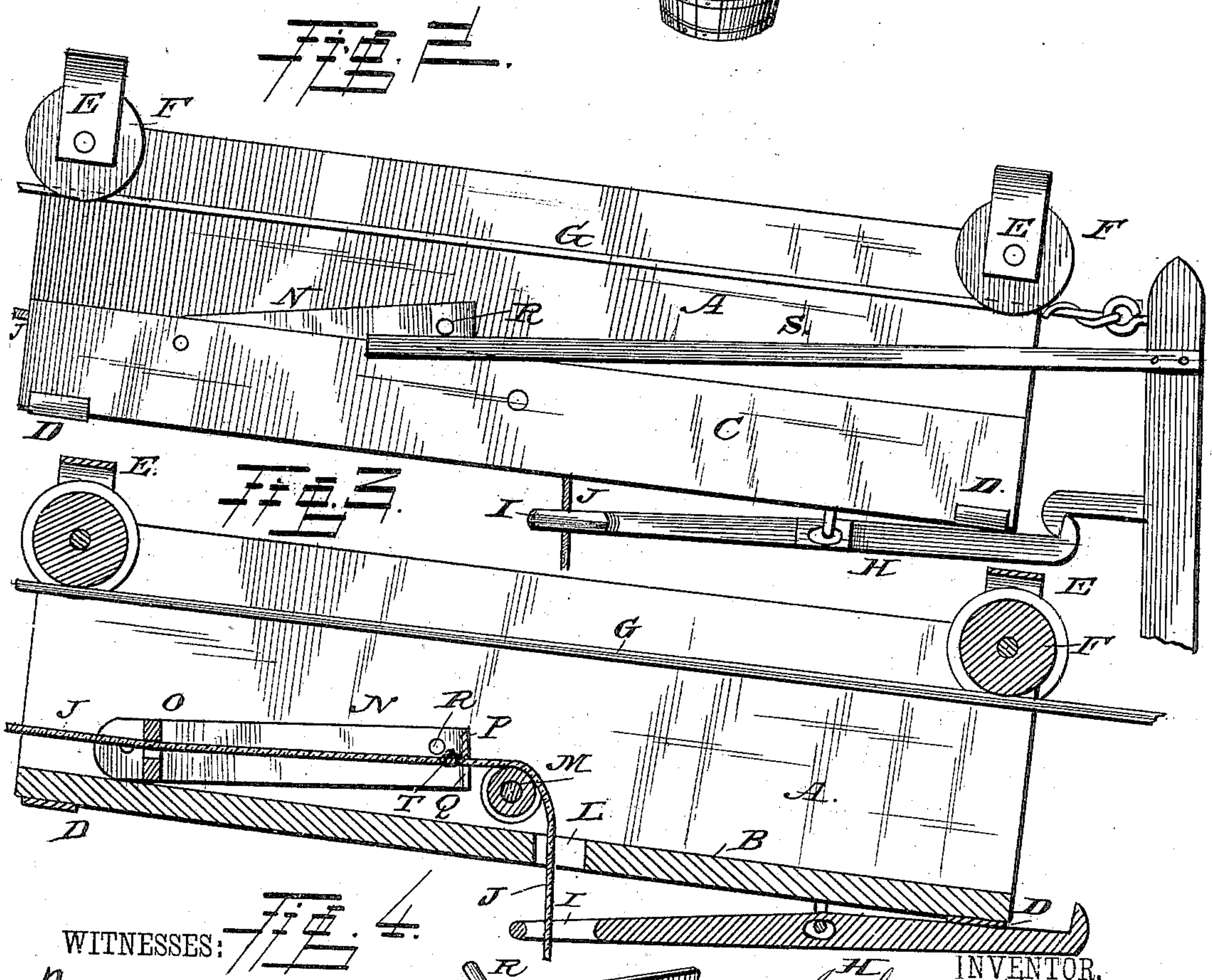
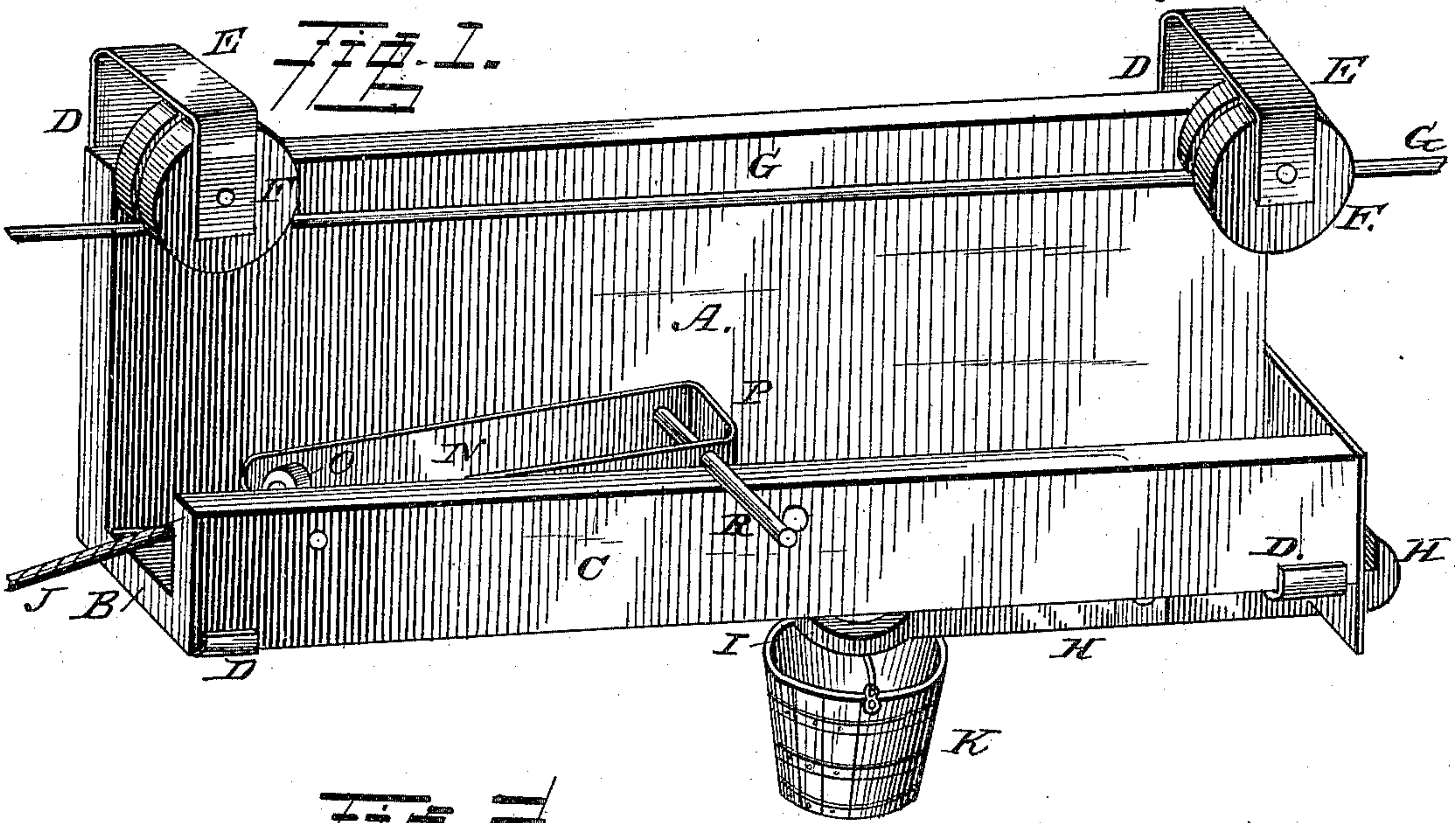
(No Model.)

J. M. WILLIAMS.

WATER ELEVATOR AND CARRIER.

No. 299,043.

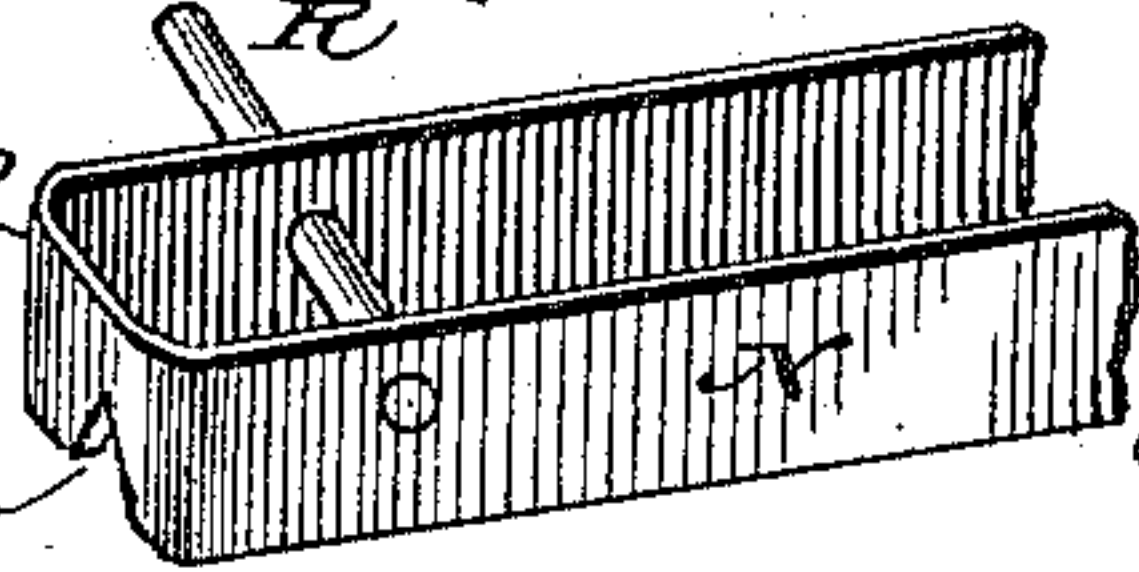
Patented May 20, 1884.



WITNESSES:

Frederick S. Dieterich.

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UNITED STATES PATENT OFFICE.

JULIUS MARIAN WILLIAMS, OF DUTCH MILLS, ARKANSAS, ASSIGNOR OF
ONE-HALF TO JAMES T. WILLIAMS, OF SAME PLACE.

WATER ELEVATOR AND CARRIER.

SPECIFICATION forming part of Letters Patent No. 299,043, dated May 20, 1884.

Application filed February 6, 1884. (No model.)

To all whom it may concern:

Be it known that I, JULIUS M. WILLIAMS, a citizen of the United States, and a resident of Dutch Mills, in the county of Washington and State of Arkansas, have invented certain new and useful Improvements in Water Elevators and Carriers; 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, which form a part of this specification, and in which—

Figure 1 is a perspective view of my improved water elevator and carrier. Fig. 2 is a side elevation of the same upon its track. Fig. 3 is a longitudinal vertical section; and Fig. 4 is a perspective detail view of the latch which holds the bucket-rope.

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

My invention has relation to that class of elevators and carriers which are adapted to run upon a suspended rope or wire; and it consists in the detailed construction, as hereinafter more fully described and claimed, of a device or apparatus which is particularly adapted for carrying water from a well to the house where the water is to be used, thus saving frequent trips to the well, and also the labor of carrying a bucket filled with water from the well to the house.

In the accompanying drawings, *a* is a board or plank, which, in connection with the bottom sill, *B*, and side *C*, forms the body of the carriage, said parts being bolted firmly together and further strengthened by the straps or end pieces, *D*, of iron, the upper parts of which are bent to form bearings. *E* for the rollers *F*, which are grooved to adapt them to run smoothly upon the wireway or ropeway *G*. The ropeway is suitably attached at one end to a window in the house, and at the other end to a suitable support at the well, it running at a suitable incline from the house to the well, so as to enable the carriage to run to the well by its own gravity. At one end of the carriage, and to the under side of the same, is hung the dog *H*, the inner end of which has an eye, *I*, through which the buck-

et-rope *J* passes, *K* indicating the bucket. The bucket-rope passes through a hole, *L*, in the bottom of a carriage, and over a grooved roller, *M*, underneath the latch *N*, and through an eye-piece, *O*, which forms a fulcrum for the latch *N*. The latter consists of a piece of strap-iron or band-iron, which is bent or doubled to form two parallel arms, and a cross-head, *P*, notched in its under side, as shown at *Q*. An arm, *R*, is inserted transversely through the latch a short distance back of the notched cross-head, resting with its projecting end upon the side piece, *C*, of the carriage.

The operation of the device is as follows: The carriage, being released from its anchor-
age at the window, will travel by its own gravity down the inclined rope to the well, where the dog *H* will engage a catch fastened to the support at that end of the ropeway, in a manner well understood in devices of this class. At the same time the projecting arm *R* of the pivoted latch *N*, striking the inclined board or slat *S*, will be lifted, thereby releasing notch *Q* from the bucket-rope and permitting the holding-knot *T* upon the bucket-rope to pass under the latch, thereby lowering the bucket by its own gravity into the well. After it has been filled with water, the bucket is raised from the well by pulling upon the bucket-rope, and when the top of the bucket strikes the inner end of the pivoted dog *H* its outer end will be released, so as to disengage the carriage, which is now drawn with the bucket full of water up to the house by pulling on the rope *J*. The bucket is held suspended under the carriage by the knot *T* on the bucket-rope catching in under the notch *Q* in latch *N*, *P*, which will fall into place by its own gravity as soon as its arm *R* is released from board *S*.

I am aware that hay elevators and carriers have been constructed before with automatically-operating dogs or latches arranged substantially as in my device, and for a similar purpose, and I do not therefore claim such construction, broadly; but

What I claim as my improvement, and desire to secure to me by Letters Patent of the United States, is—

The combination of the carriage having self-

operating dog H, the bucket and bucket-rope
having knot or enlargement T, the hinged
latch consisting of parallel arms N N, cross-
head P, having notch Q, and projecting arm
5 R, and eye-piece O, forming a guide for the
bucket-rope, as and for the purpose shown
and specified.

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

JULIUS MARIAN WILLIAMS.

Witnesses:

JAMES A. BATEMAN,
M. E. BLEVINS.