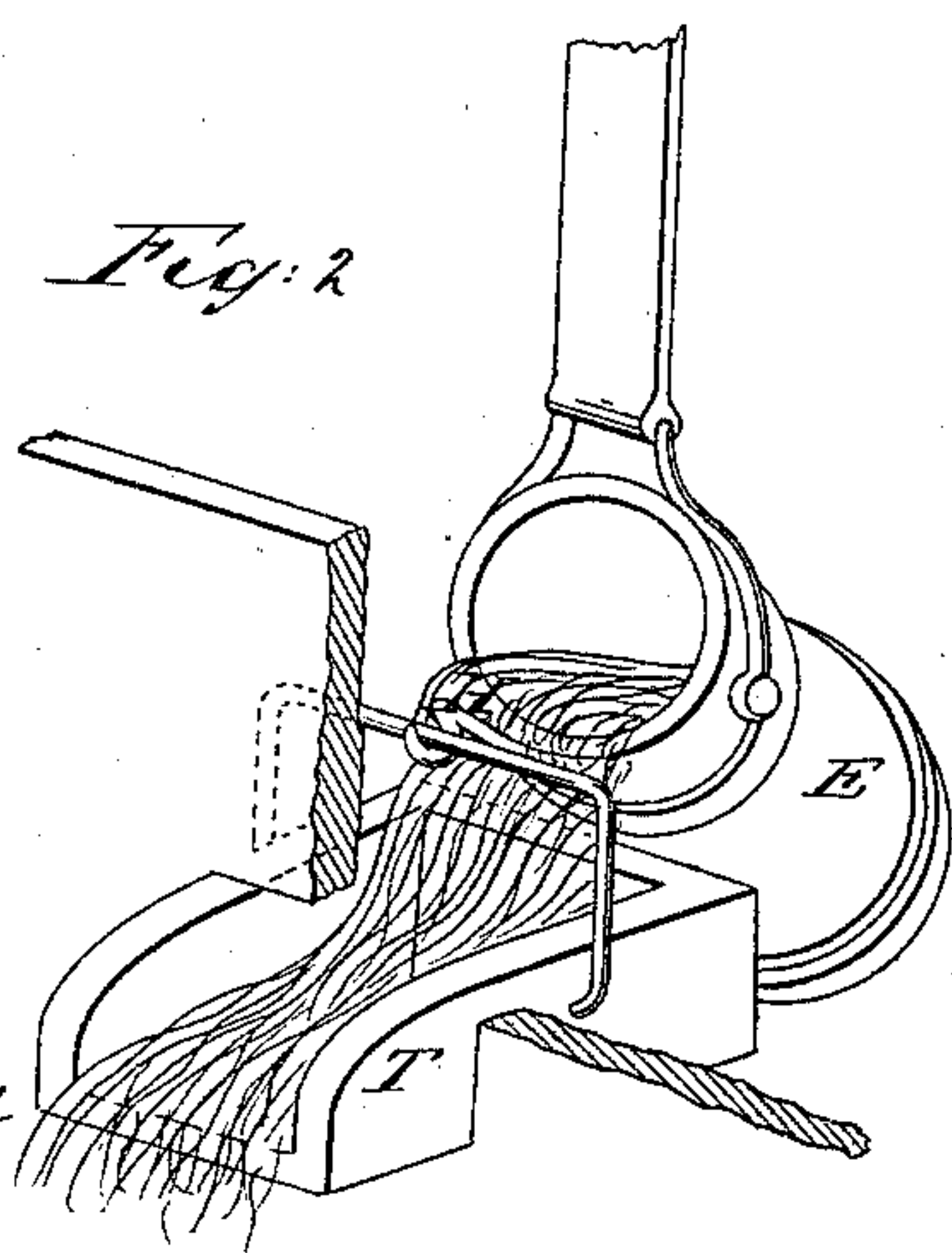
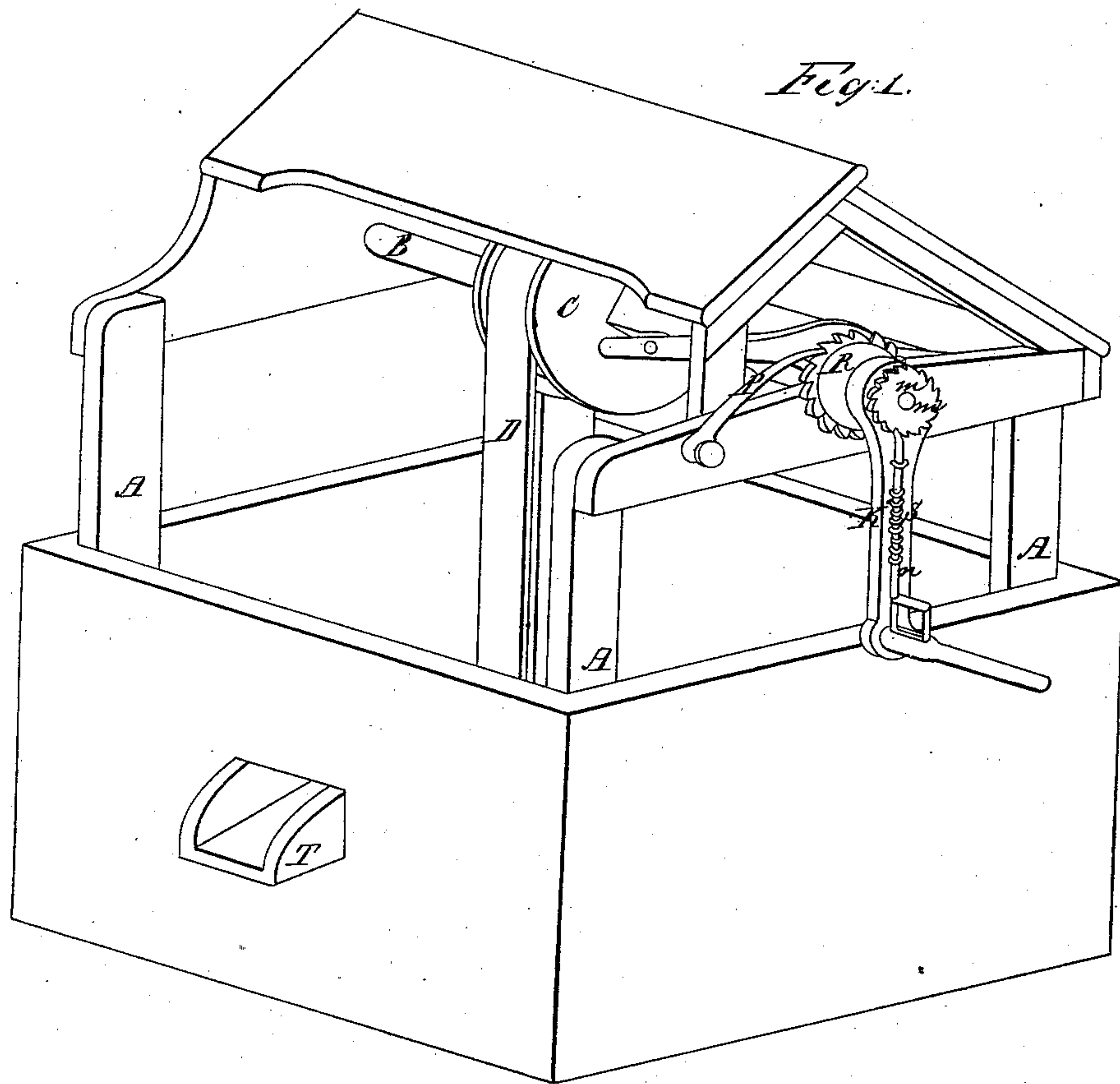


*J. E. Moeller,*

*Windlass Water Elevator,*

*Nº 57,546.*

*Patented Aug. 28, 1866.*



*Witnesses*  
*W. H. Heath*  
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# UNITED STATES PATENT OFFICE.

JACOB E. MOELLER, OF TERRE HAUTE, INDIANA.

## IMPROVEMENT IN WATER-ELEVATORS.

Specification forming part of Letters Patent No. 57,546, dated August 28, 1866.

*To all whom it may concern:*

Be it known that I, J. E. MOELLER, of Terre Haute, in the county of Vigo, State of Indiana, have invented an Improved Water-Elevator; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, in which—

Figure 1 is a perspective view of my water-elevator. Fig. 2 is a view of the bucket with its straps and hook and the trough for receiving the water.

My invention consists of an arrangement of devices, hereinafter more fully described, by means of which, after the water has been raised from the well and emptied at the trough, the bucket can be made to descend again into the well without the necessity of turning the crank, as is usual for that purpose.

In the drawings, A A is the frame of the elevator. B is the crank-shaft, having its journals in the side pieces of the frame, and carrying the pulley C, in the groove of which works the strap D, to one end of which the handle of the water-bucket is attached, the other end of the strap being connected with the pulley.

T is the trough for the delivery of the water raised from the well, having attached to it the hinged rod F, which catches into the hook H on the bucket when the latter is raised, thereby tilting it and emptying its contents into the trough.

To one end of the shaft B there is attached a ratchet-wheel, *m*, which revolves with said shaft. R is a ratchet-wheel, and K a crank, united to each other, through which the shaft B moves loosely.

*n* is a spring-catch attached to the crank,

the bent end of which enters a perforation in the crank-handle, the other end catching into the teeth of ratchet-wheel *m*, and connecting, when in this position, the crank K and ratchet-wheel R with the shaft B.

By pressing the bent end of the spring-catch and causing it to enter a perforation in the crank-handle, the connection between the crank-ratchet R and shaft B will be broken and the latter allowed freely to turn in its journals.

S is a spring, which forces the catch into the ratchet *m*. P is a pawl, which operates with the ratchet-wheel R, and O is a brake operating on shaft B.

The operation of the elevator is as follows: The spring-catch being geared to the ratchet-wheel *m* and the bucket filled with water, it is raised by turning the crank until the hook H of the bucket is caught by the hinged rod F, when the bucket will be tilted and emptied. The bent end of the spring-catch is then pressed by the hand into the perforation in the crank-handle, removing the spring-catch from the ratchet-wheel *m*, when the shaft B will be free to move in its journals, and the weight of the bucket will operate it, and thus cause the descent of the bucket into the well.

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

The combination of the bucket E, strap D, pulley C, ratchet-wheel R and *m*, crank K, and spring-catch *n*, the whole being constructed, arranged, and operated substantially in the manner and for the purpose set forth.

JACOB E. MOELLER.

Witnesses:

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