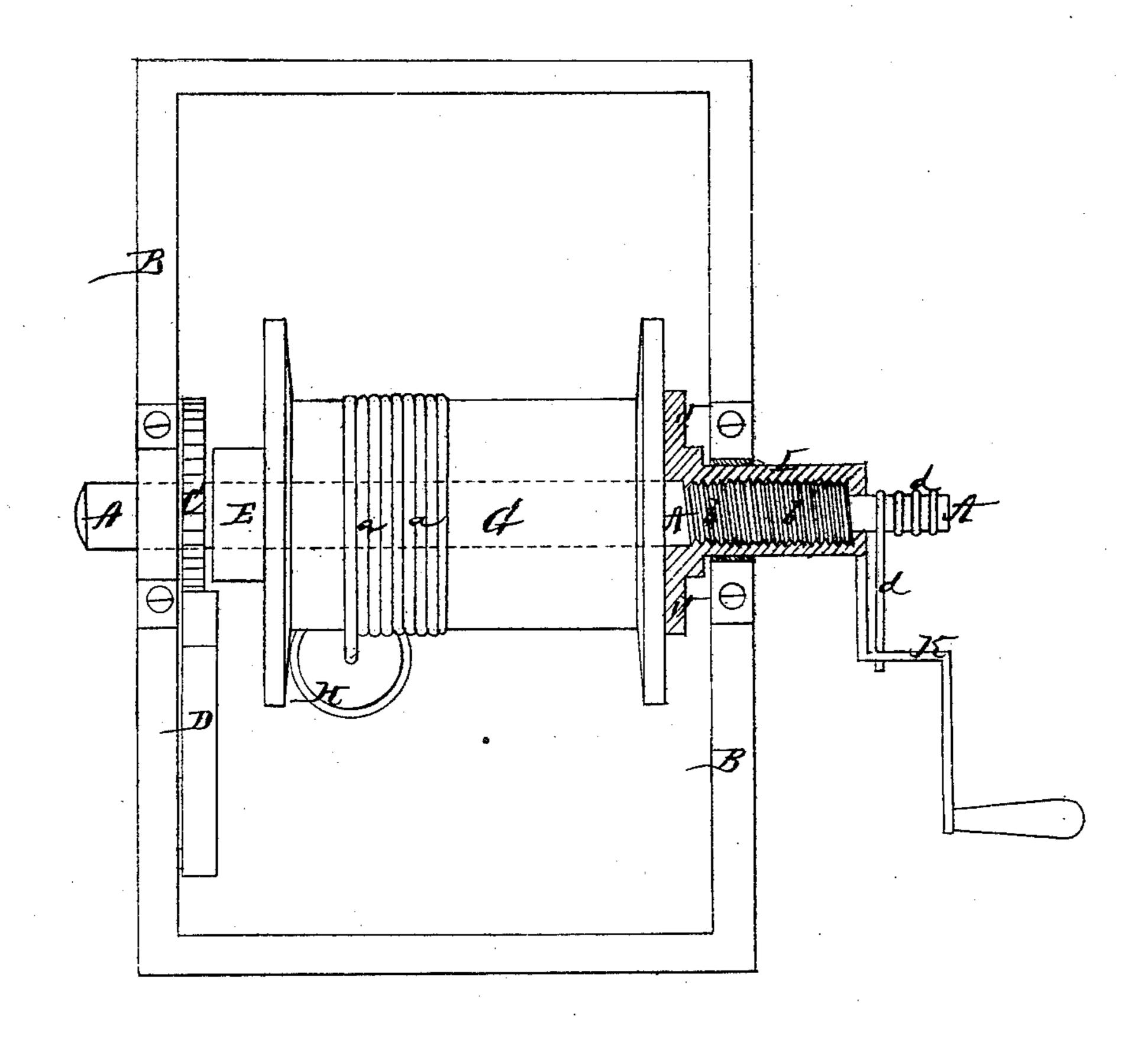


Moter L'Elondoi.

10.108,212.

Fatented Oct. 11. 1870.



Witnesses Alfgatman 6. L'overt, Joseph Lekle

Sheef

Theromeastmason

Attyo

Anited States Patent Office.

ISAIAH DEKLE, OF THOMASVILLE, GEORGIA.

Letters Patent No. 108,242, dated October 11, 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, Isaiah Dekle, of Thomasville, in the county of Thomas and in the State of Georgia, have invented certain new and useful Improvements in Windlass for Drawing Water; 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 a windlass for drawing water, constructed so as to be operated by means of screw-friction, 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, which represents a plan view of my machine.

A represents a shaft, placed across the well-house

B, in suitable bearings.

At one end, inside of the well-house, the shaft A is provided with a toothed wheel, C, in which gears or catches a pawl, D, pivoted on the inside of the wellhouse.

On the inner side of the ratchet-wheel C, upon the shaft A, is formed a collar, E, and against this collar, from the other end of the shaft, is placed the spool G, which turns freely on the shaft.

To this spool G is attached the well-rope a, with

its bucket H.

Beyond the spool G, at the opposite end from the collar E, the shaft A is provided with screw-threads b b, and a hollow screw-sleeve, I, is screwed onto the same, said sleeve resting in the bearings on that side of the well-house, the shaft itself actually having its: bearing at that end within the sleeve.

At the inner end of the sleeve I is formed a circular flange, J, which, when the sleeve is screwed up, bears against the end of the spool G, while at the outer

end of the spool is formed a crank, K.

The flange J is held screwed up against the spool G by means of a spiral spring, d, surrounding the end of the shaft A beyond the sleeve I, one end of said spring being secured to the shaft, and the other end bearing against the crank K, as shown.

When the crank K is turned toward the right, the friction of the flange J against the spool G causes said spool to turn, winding up the well-rope a, and

raising the buckets.

As soon as the bucket has been emptied the force on the crank K is exerted toward the left, which releases the flange J from the spool G, so that the weight of the empty bucket will cause said spool to revolve on the shaft, unwinding the well-rope, and lowering the bucket. The wheel C and pawl D prevent the shaft A from turning backward during this operation.

The bucket having been raised, as above described, it is tilted by means of a bail or rod, secured inside the well-house, and having a projection in the center, against which the edge of the bucket strikes, causing the bucket to empty in a trough, or other suitable channel, made for that purpose.

Having thus fully described my invention,

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

The combination, with the spool G, of the shaft A, with flange E and with screw-threads b b, hollow sleeve I, with flange J and crank K, and the ratchet C at one end and spring d at the other end of shaft A, all constructed to operate substantially as set forth.

In testimony that I claim the foregoing, I have hereunto set my hand this 1st day of July, 1870.

ISAIAH DEKLE. Witnesses: RUFUS A. VARNEDOE, HENRY H. SANFORD.