(No Model.)

S. ANDERSON.

WATER ELEVATOR.

No. 309,917. Patented Dec. 30, 1884.

Fig. 1.

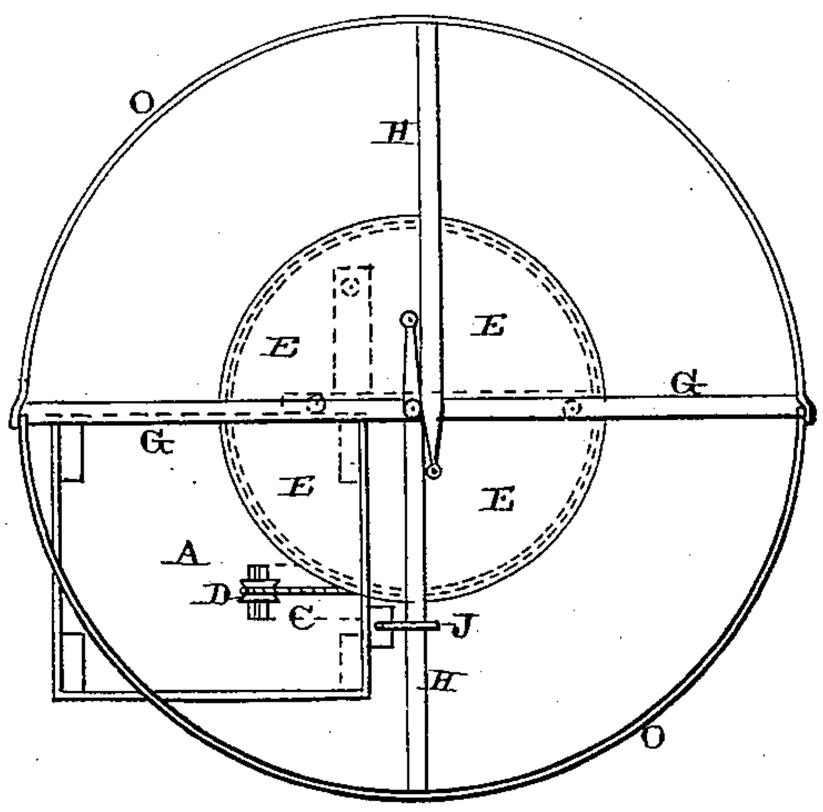


Fig. 2.

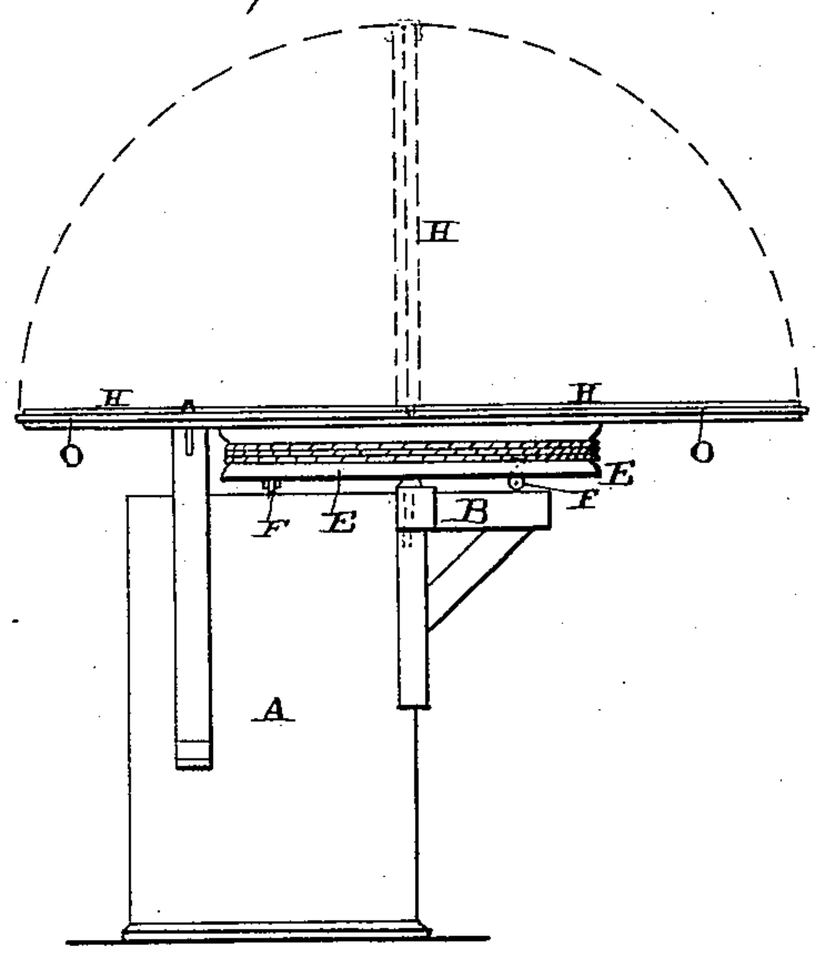


Fig. 3.

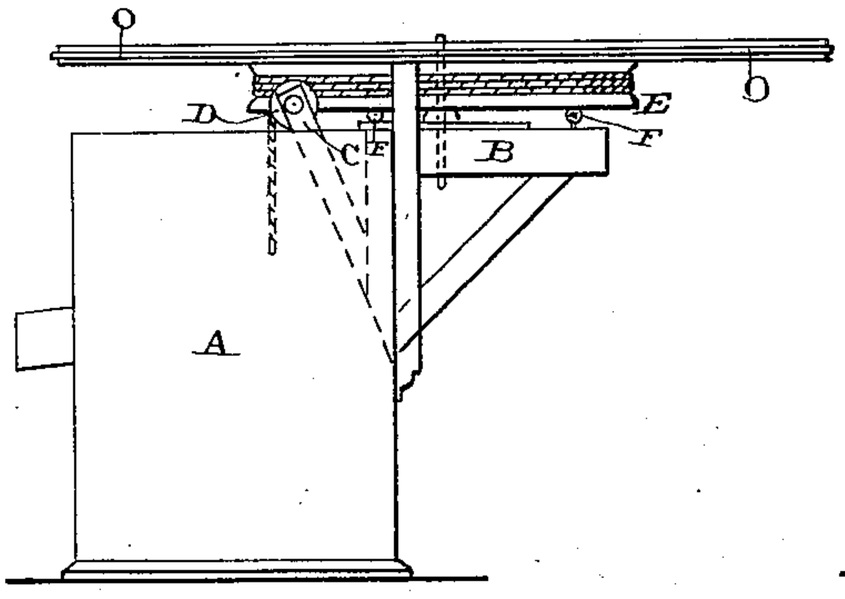
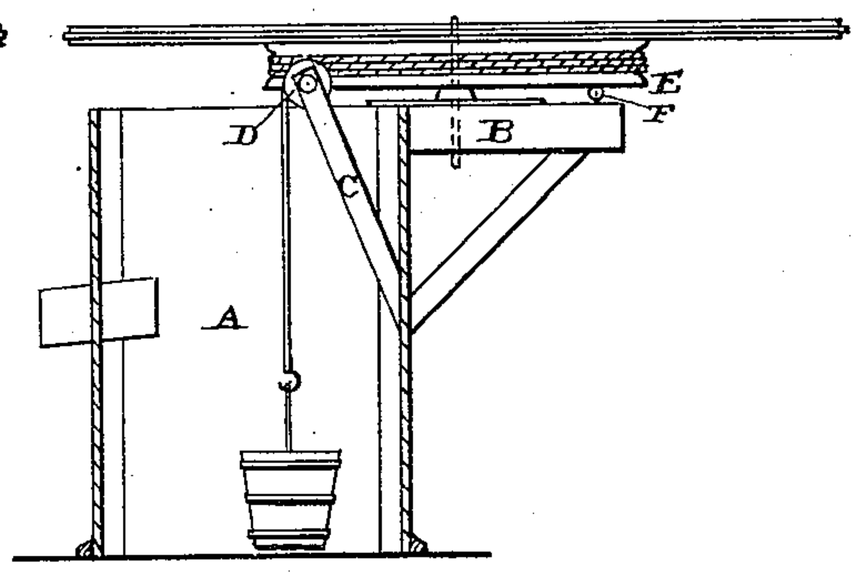


Fig. 4.



Witnesses.

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UNITED STATES PATENT OFFICE.

SAMUEL ANDERSON, OF JACKSON, MICHIGAN.

WATER-ELEVATOR.

SPECIFICATION forming part of Letters Patent No. 309,917, dated December 30, 1884.

Application filed October 8, 1884. (No model.)

To all whom it may concern:

Be it known that I, SAMUEL ANDERSON, of Jackson, in the county of Jackson and State of Michigan, have invented certain new and useful Improvements in Water-Elevators; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it pertains to make and use it, reference being had to the accompanying drawings, which form part of this specification.

My invention relates to an improvement in water-elevators; and it consists in the combination of the windlass, wheel, or drum, around which a rope is wrapped, and which is supported in position upon suitable rollers, with a hand-wheel which is provided with two stationary arms, and two arms which are pivoted at their inner ends, so that they can be raised upward for the purpose of protecting stock and giving more room to water the same.

The object of my invention is to provide a machine which is adapted for raising water from wells and for elevating or moving weights of any kind.

Figure 1 is a plan view of a machine embodying my invention. Figs. 2 and 3 are side elevations of the same, two of the arms in Fig. 3 being shown in a raised position in dotted lines. Fig. 4 is a similar view to Fig. 2, the curb being shown in section.

A represents the curb of the well, which will be of ordinary construction, and which has a suitable frame-work, B, formed upon one side for the purpose of supporting the windlass in position. Projecting inward from one side of this curb over the top of the well is the brace or support C, carrying a pulley, D, on its upper end, which pulley serves as a guide for the rope as it is wound or unwound upon the windlass.

Upon the top of the frame or support B is journaled the windlass E, which will be of any desired diameter that may be preferred. This windlass consists of a grooved wheel of any desired thickness, which is grooved around the edges for the purpose of retaining the rope or chain always in position. In order to balance this windlass in place and to enable it to be moved as easily as possible, a suitable number of friction-rollers, F, are placed upon the table or support, and the windlass rests and revolves upon these rollers.

Secured upon the top of the windlass E are the two rigid arms G and the two hinged arms H, which are placed at right angles to each other, as shown. These arms G H serve as a means to enable the windlass to be revolved by the person who is drawing water or raising weights of any kind. The two arms H are hinged in position so that they can be raised vertically, as shown in Fig. 2, so as to be out of the way, for the purpose of protecting stock and giving more room to water the same. These arms are raised upward, and will be held together by means of a clasp, hook, or catch of any kind. An iron or wooden band is secured to the ends of the two arms G, in such a manner as to form a wheel of larger diameter than the windlass, for the purpose of enabling the person to keep the windlass moving and to catch hold of and stop the windlass at any desired point. A suitable catch, J, is secured either to the curb or supporting frame or table, and by means of which the windlass can be held in any desired position.

By means of the construction above shown and described a machine is provided by means of which water can be easily and rapidly drawn from a well, no matter how deep, or by means of which weights of any kind can be raised or moved at the will of the operator.

Having thus described my invention, I claim—

The combination of a supporting-frame provided with friction-rollers, the windlass journaled thereon, the two rigid arms, which are connected to the windlass, the two pivoted arms, which are adapted to be raised in a vertical position, and the band I, which unites the ends of the arms together, substantially as shown and described.

In testimony whereof I affix my signature in presence of two witnesses.

SAMUEL ANDERSON.

Witnesses:

R. D. KNOWLES,

LOLO D. MONOGHAN.