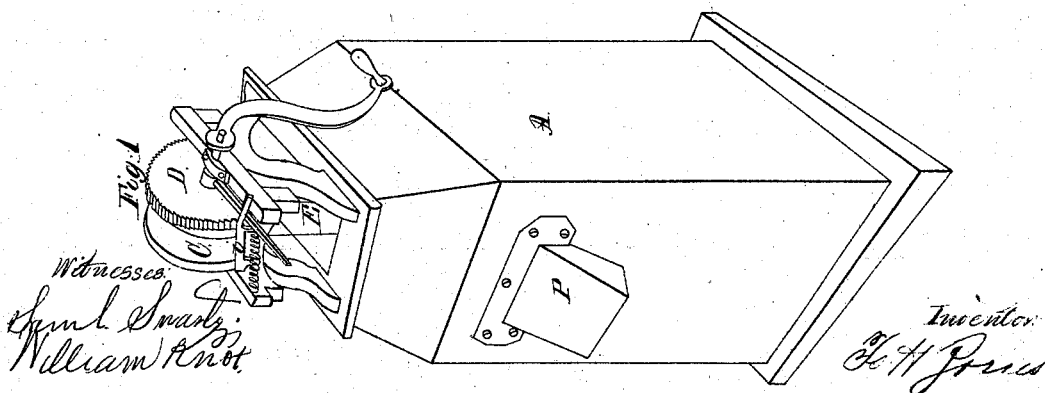
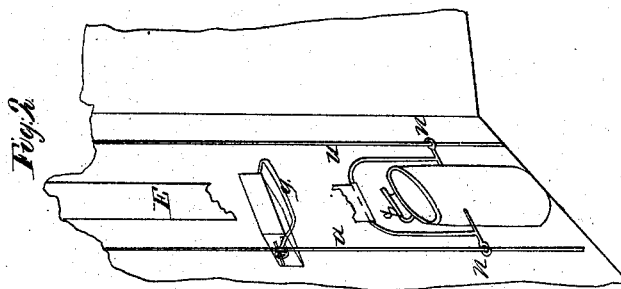
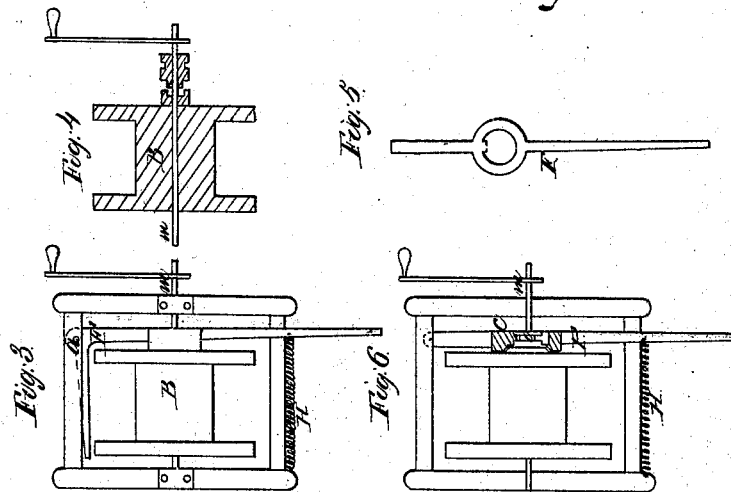


*F. H. Jones,*

*Windlass Water Elevator,*

*No. 54,558,*

*Patented May 8, 1866.*



# UNITED STATES PATENT OFFICE.

F. H. JONES, OF ATTICA, NEW YORK.

## WATER-DRAWER.

Specification forming part of Letters Patent No. 54,558, dated May 8, 1866.

*To all whom it may concern:*

Be it known that I, F. H. JONES, of the town of Attica, in the county of Wyoming and State of New York, have invented a new and Improved Method for Drawing Water from Wells; and I do hereby declare that the following is a full and exact description thereof, reference being given to the accompanying drawings, and to the letters of reference marked thereon.

The nature of my invention relates to an improved method or device by which water may be drawn from deep or shallow wells used for culinary or other purposes; and consists more particularly in providing guides for conducting the bucket up and down in the well, thus preventing the bucket from swinging or twisting the strap which may be attached to the bucket.

It further consists in providing a brake in a cheap and novel manner, that may be applied at will to the windlass or capstan.

Figure I is a perspective view of my improved water-drawer. Fig. II is a perspective view of the inside of the curb. Fig. III is a top-plan view, showing the brake. Fig. IV is a view of the drum, clutch, and crank. Fig. VI is also a top-plan view of the same. Fig. V is a view or cut of the brake, showing the lug.

To enable others skilled in the art to make and use my invention, I will proceed to describe its construction and operation.

Letters of like name and kind refer to like parts in each of the figures.

A represents the curb, of common construction, with the top tapered or drawn in for the purpose of bringing it to a suitable or convenient size to receive the machinery to which it is attached.

B is the cylinder or drum, with wheels C and D, that, fixed to the shaft, and being of larger diameter than the drum, forms flanges upon each end, which prevents the strap or band E from running off while in operation.

F is the brake, made in the form of an elbow, secured by the pivot-bolt *a*, the short arm of which comes near the periphery of the wheel C, but not touching it. It will be ob-

served that on the brake-lever is a lug *c*, which, when not used as a brake, fits into the notch or seat O, Fig. VI, and thus secures the drum rigidly to the shaft; but when the brake-lever is brought in contact with the periphery of the wheel or flange C the said lug is removed from the seat O, and the drum runs loose upon the shaft, while the crank remains stationary.

H is a spiral spring secured to the brake and top portion of the curb, which serves the purpose of keeping the brake off the flange and the drum fast to the shaft. So it will be seen that by working the brake back and forth throws the shaft in and out of gear with the drum.

*i*, Fig. I, is also a ratchet-brake that works in the ratchet-wheel D, and is also operated by the brake F. The end of the bar of the pawl or brake *i* is bent over the lever F, so that when the lever F is moved the pawl *i* thrown out of the ratchet and the bucket drawn from the well.

*u u* are rods which serve the purpose of guides for the bucket as it ascends and descends, by passing through the loops or eyes *n n*, which are attached to the bail of the bucket. *x* is a hook, secured upon one side of the bucket, so that as it ascends it will come in contact with the bail I, and, as the bucket continues to ascend, the contents of the bucket is emptied into the spout P.

K is the crank, rigidly secured to the shaft *m*, and by which the bucket is lowered and raised.

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

1. The brake F, provided with lug *c*, for the double purpose of a brake and for holding or securing the drum B to the shaft or loosening it at will, for the purposes and substantially as described.

2. The ratchet and pawl, when constructed and operated substantially as herein set forth.

F. H. JONES.

Witnesses:

SAML. SWARTZ,  
CHARLES ROGERS.