J. KNIPSCHEER.

Windlass Water-Elevator.

No. 209,057. Patented Oct. 15, 1878.

Fig. 1.

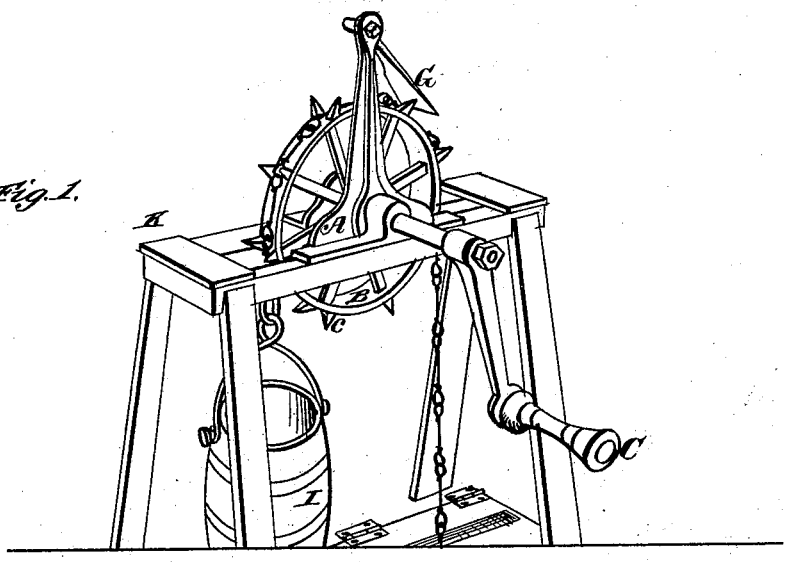



Fig. 2.

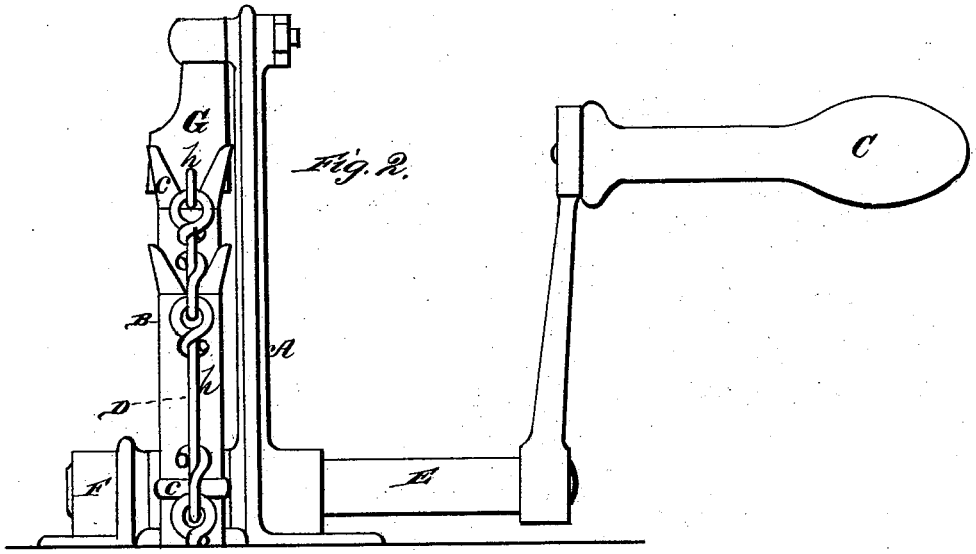
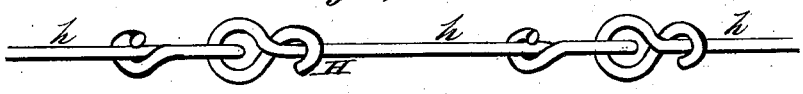



Fig. 3.




WITNESSES

Robt Ewett.

George E. Upham.

INVENTOR.

John Knipscheer.

By Gilmore, Smith & Co.

ATTORNEYS.

# UNITED STATES PATENT OFFICE.

JOHN KNIPSCHEER, OF WEIMAR, TEXAS.

## IMPROVEMENT IN WINDLASS WATER-ELEVATORS.

Specification forming part of Letters Patent No. **209,057**, dated October 15, 1878; application filed July 27, 1878.

*To all whom it may concern:*

Be it known that I, JOHN KNIPSCHEER, of the town of Weimar, in the county of Colorado and State of Texas, have invented a new and valuable Improvement in Chain-Wheels; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawings is a representation of a perspective of the chain-wheel mounted for operation. Fig. 2 is a front view of the same; and Fig. 3 is a wire chain embodying, with Figs. 1 and 2, the invention.

The nature of my invention consists in the construction and arrangement of a device for drawing water from wells, which shall be cheap, convenient, and free from danger, as will be hereinafter more fully set forth.

The annexed drawing, to which reference is made, fully illustrates my invention.

K represents a suitable frame-work erected over the well, provided on one side with a standard, A. E is the wheel-axle, provided at one end with a crank, C, and having its bearings in the standard A and a box, F, formed on the frame opposite said standard.

B represents the wheel secured on the shaft E, and provided on its periphery with forks *c c* at equal distances apart. The chain H passed over the wheel B is composed of wire links *h h*, bent and twisted in such a manner as to be of the required strength and to take hold in the forks *c* of the wheel. A bucket, I, is attached to each end of this chain.

In the upper end of the standard A is journaled a swinging pawl, G, which acts against the wheel-forks *c*, said forks serving as ratchets when the wheel is turned in either direction.

The operation is as follows: After the upper bucket is emptied, the other bucket being in the well, the trap-door of the well is opened and the empty bucket let in; then turn the crank to draw the full bucket, having the ratchet-pawl G on the side of the wheel where the empty bucket goes down. At any distance the full bucket is drawn the ratchet will secure the same in place when the crank-handle is let go. After the bucket is fully drawn the ratchet-pawl is turned to the other side to hold the next bucket to be drawn.

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

In a windlass-elevator, the combination of the frame K, having the standard A, provided with bearing for the axle E, and the double-acting pawl G, with the wheel B, having forks *c c* and chain H *h*, and buckets I I, constructed and operating substantially as and for the purposes set forth.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

JOHN KNIPSCHEER.

Witnesses:
H. SCHARVE,
GEORGE E. UPHAM.