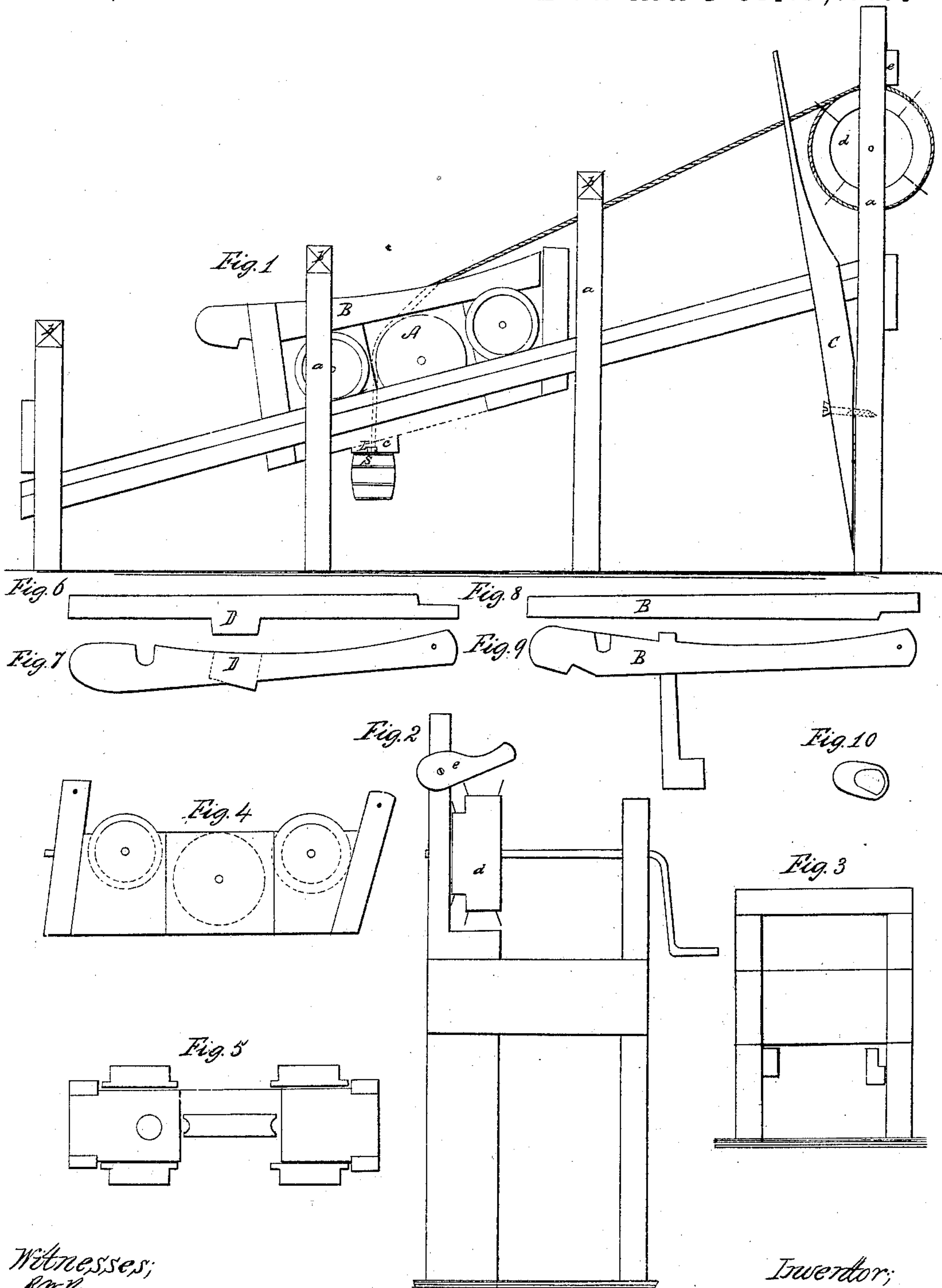


*D. Johnston,*

*Windlass Water Elevator,*

*N<sup>o</sup> 30,631.*

*Patented Nov. 13, 1860.*



*Witnesses;*  
*R. M. Boyd*  
*G. W. Shurbanks*

*Inventor;*  
*David Johnston*

# UNITED STATES PATENT OFFICE.

DAVID JOHNSTON, OF EDDYVILLE, IOWA.

WATER ELEVATOR AND CARRIER.

Specification of Letters Patent No. 30,631, dated November 13, 1860.

*To all whom it may concern:*

Be it known that I, DAVID JOHNSTON, of Eddyville, Wapello county, in the State of Iowa, have invented a new and useful Machine for Drawing Water from Wells; 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, in which—

Figure 1 is a view of the carriage and track on which it can run; Fig. 2 is an elevation of the end of frame work, wheel, &c., of the track; Fig. 3, end of the frame work at the well, and the crossbar that the two latches rise on, and that the left one holds to while the bucket is down; Fig. 4 is a side view of my carriage on a track; Fig. 5, section of my carriage; Fig. 6, section of the latch on the right side, descending; Fig. 7, side view of the same; Fig. 8, section of the left hand latch, letter B, in descending the track; Fig. 9, side view of the same; Fig. 10, letter C C, shows the hollow end of the pin which the rope goes through and the knocker hits to unlatch the carriage from where it is fastened to the crossbar at the well.

I describe my carriage, and mode of detaching and attaching a bucket from and to it, as follows:

In the middle of the carriage is a wheel, or pulley, letter A, over which a cord, or rope, passes, that draws the carriage and suspends the bucket. On this cord, or rope, is a knot, or lump of lead, which rests on the wheel, or pulley, when the bucket is up to the carriage and is held fast to that place

by a catch D on the side of latch—see Figs. 6 and 7 (the right hand latch)—which catch D lies on it and over it while the bucket is carried on the track; but, when the carriage runs down to the well, this catch D, on the side of latch Figs. 6 and 7, is detached from the rope, or lump of lead, by the latch sliding on a cross bar at the end of the track, when the bucket drops into the well. At the same moment, latch Figs. 6 and 7 slides onto the cross bar at the end of the track, latch letter B, Figs. 8 and 9, also rises on the same cross bar, and latches on to it, and holds the carriage to its place while the bucket fills. This bucket is suspended on a snap S, around which snap S, on the end of the rope, is a sinker of lead L. This lead serves as a sinker to the bucket, and a knocker to knock loose the latch holding the carriage to its place while the bucket comes up, the rope passing through the pin part of which is hollow. This knocker, as the bucket rises, hits the end of the hollow pin, C, which is screwed to the latch above, B Figs. 8 and 9, unlatches it and lets the carriage with the bucket free to start on the track.

What I claim as my invention and desire to secure by Letters Patent is—

The arrangement of the track, carriage, hollow pin, bucket, knot, rope, pulley (A), and latches (B) and (D), when the whole is constructed arranged and operated in the manner and for the purpose set forth.

DAVID JOHNSTON.

Attest:

G. WM. SURBAUGH,  
R. W. BOYD.