

J. C. Barrett,

Windlass Water Elevator,

N^o 55,980.

Patented July 3, 1866.

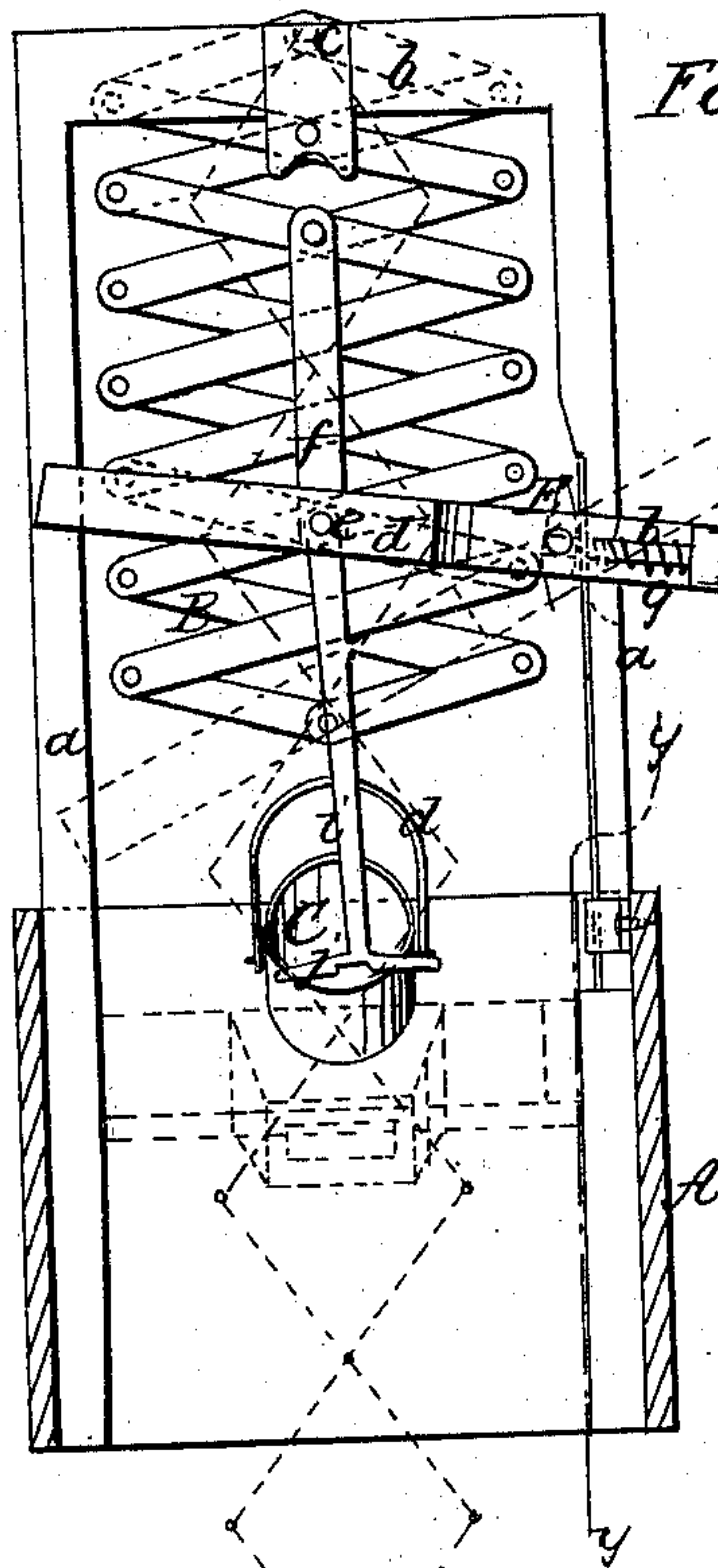
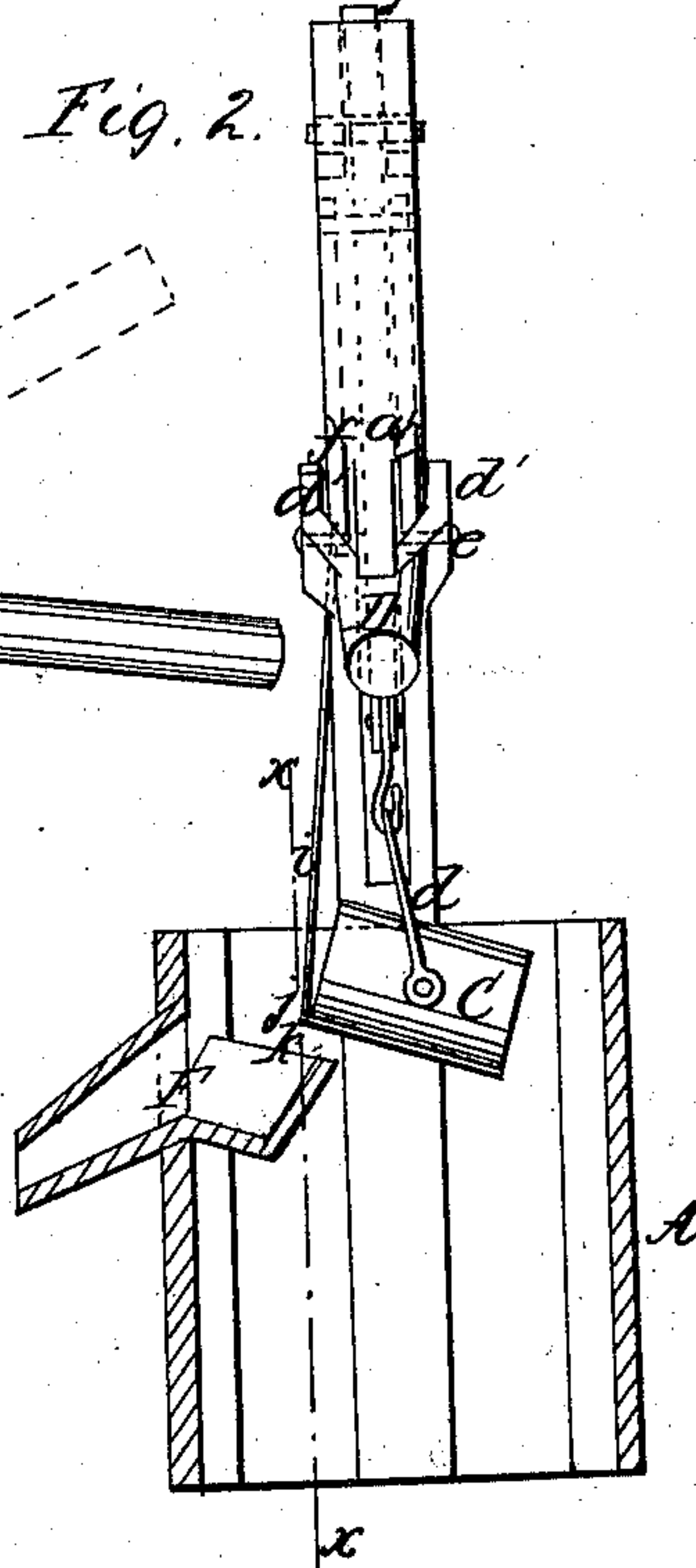


Fig. 1. Fig. 2.



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UNITED STATES PATENT OFFICE.

J. C. BARRETT, OF STAMFORD, CONNECTICUT.

IMPROVEMENT IN WATER-ELEVATORS.

Specification forming part of Letters Patent No. 55,980, dated July 3, 1866.

To all whom it may concern:

Be it known that I, J. C. BARRETT, of Stamford, Fairfield county, State of Connecticut, have invented a new and Improved Water-Elevator; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 is a side view of my invention, the curb being in section, as indicated by the line *x x*, Fig. 2; Fig. 2, a front view of the same, the curb being in section, as indicated by the line *y y*, Fig. 1.

Similar letters of reference indicate like parts.

This invention relates to a novel application of the lazy-tongs system of levers for elevating water for domestic use; and it consists in the means employed for actuating said system of levers and in the means for tilting the bucket, as hereinafter fully shown and described.

A represents a well-curb, which may be constructed in any proper manner, and provided with uprights *a a* at two opposite sides, connected at their upper ends by a cross-bar, *b*.

B represents a system of levers commonly termed the "lazy-tongs." The upper end of the lazy-tongs is connected to the center of the cross-bar *b* by a pivot, *c*, and to the lower end the bucket C is attached, said bucket being provided with the usual bail *d*, which is connected to the lazy-tongs.

D is a lever by which the lazy-tongs is operated. This lever is forked or provided with two prongs, *d' d'*, to fit one at each side of the lazy-tongs, said prongs being fitted on the ends of a pin, *e*, which passes through the lower ends of upright bars *f f*, placed one at each side of the lazy-tongs, and also through two of the levers of the same, the upper ends of said bars being connected to the lazy-tongs in a similar manner.

Within the lever D, at the inner ends of the prongs *d d*, there is fitted a rocker, E, pivoted to a rod, *g*, which has a spiral spring, *h*, upon

it, said spring having a tendency to keep the rocker in contact with the upright *a*, on which the lever D is fitted. This rocker performs an important function, causing the lever D to act upon the lazy-tongs in a vertical line, or nearly so, by compensating for the curvilinear movement of the lever, as will be understood by referring to Fig. 1, in which two positions of the lever are shown, one in black and the other in red.

By this arrangement the bucket C may be raised and lowered very expeditiously, and the lazy-tongs may serve as a ladder to enable a person to go down into the well when necessary.

To the lower end of one of the bars *f* there is attached a pendent rod, *i*, having a cross-head, *j*, at its lower end. This cross-head, when the bucket is raised, comes in contact with a projecting lip, *k*, thereon, and causes the bucket to tilt so that it will discharge its contents into the spout F, as shown clearly in Fig. 2, the bucket righting itself or assuming an upright position as soon as it commences to descend. This forms a very simple bucket-tilting device, and one which will operate efficiently without the liability of getting out of repair.

I do not claim separately the lazy-tongs arrangement, for that is an old and well-known device; but

I do claim as new and desire to secure by Letters Patent—

1. The lazy-tongs B, in combination with the lever D, provided with the rocker E, all being arranged substantially as and for the purpose set forth.

2. The pendent rod *i*, provided with the cross-head *j* and attached to the lazy-tongs, in connection with the lip *k* on the bucket, substantially as and for the purpose specified.

The above specification of my invention signed by me this 9th day of April, 1866.

JAMES C. BARRETT.

Witnesses:

WM. F. MCNAMARA,
ALEX. F. ROBERTS.