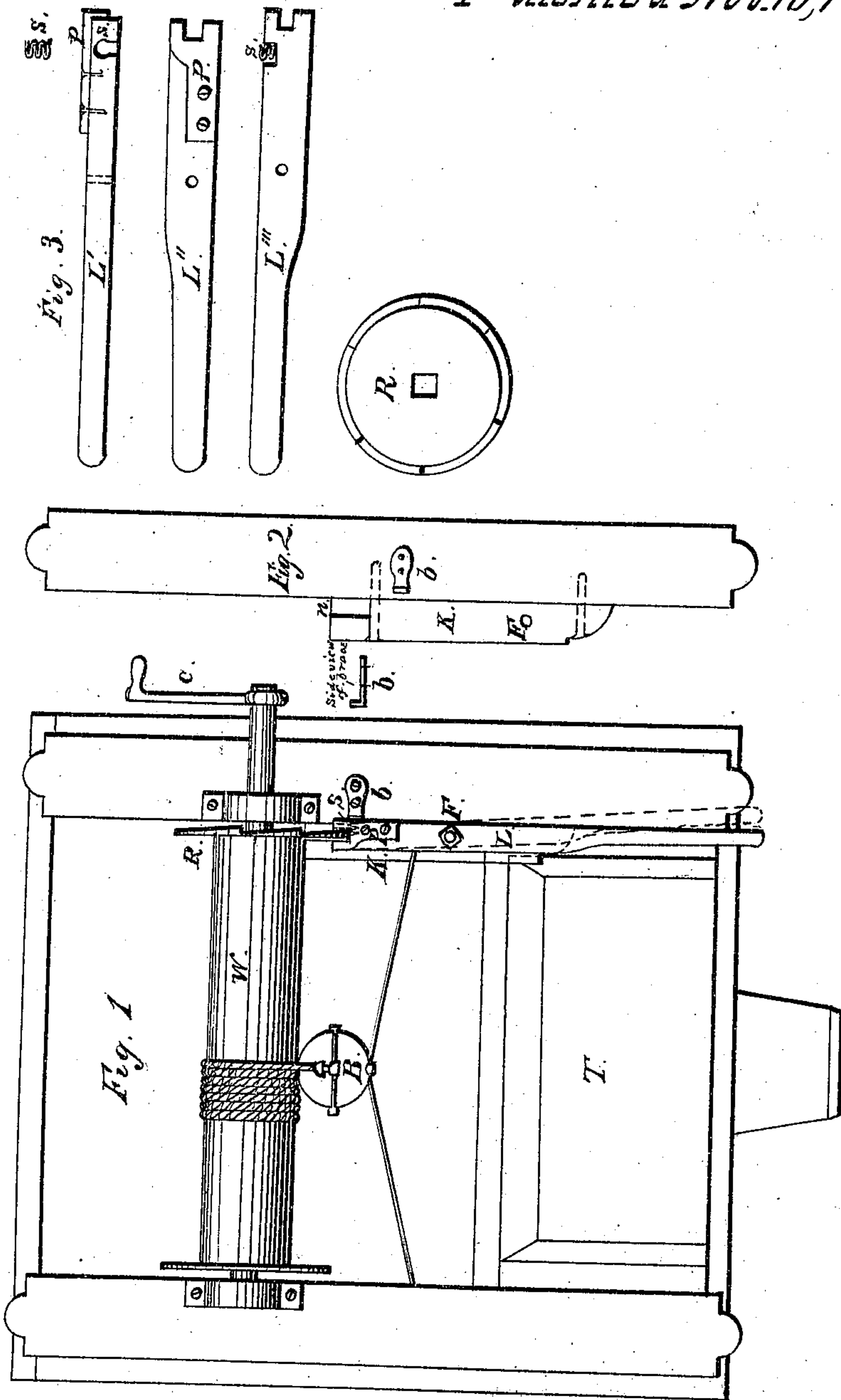


J. Lilly,

Windlass Water Elevator.

N^o 40,569.

Patented Nov. 10, 1863.



Witnesses:
L. W. Everett.
B. B. Pease.

Inventor:
Jonathan Lilly

UNITED STATES PATENT OFFICE.

JONATHAN LILLY, OF CASTLE CREEK, NEW YORK.

IMPROVEMENT IN WATER-ELEVATORS.

Specification forming part of Letters Patent No. 40,569, dated November 10, 1863.

To all whom it may concern:

Be it known that I, JONATHAN LILLY, of Castle Creek, in the county of Broome, in the State of New York, have invented a new and useful Improvement in Water-Elevators; 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 shows the plan of the well-curb with the improvement attached. Fig. 2 shows a part of the curb with the lever L removed, and Fig. 3 shows the top, side, and bottom of said lever L.

In Fig. 1, W is the windlass; R, the ratchet-wheel; P, the pawl attached to the lever L; F, the fulcrum on which the lever L turns; K, the support for the lever L.

In Fig. 2, K is the rest attached to the curb to support the lever L, and F the fulcrum or pivot.

In Fig. 3, L' is a side view of the lever L, showing the pawl P and spiral spring S; L'', a top view of the same; and L''', a view of the under side of the same, showing the spiral spring S.

The lever L, to which is attached the pawl

P, rests upon the well-curb and turns upon the fulcrum or pivot F. The brace *b* is placed upon the curb in such a manner as to press against the spiral spring S, inserted in the lever L, and thus hold the pawl P against the ratchet-wheel R for the purpose of preventing the descent of the bucket. The bucket can be let down by pressing against the lever L to remove the pawl from the ratchet-wheel, and in order to regulate the velocity of the descending bucket the lever L is pressed against still harder, so as to bring the pawl P in contact with the inner surface of the ratchet-wheel, thus creating sufficient friction to stop the bucket entirely, if desired. As the advantages of this arrangement must be apparent to all, further description is deemed unnecessary.

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

The combination and arrangement of the lever L, spring S, brace *b*, pawl P, ratchet-wheel R, and windlass W, as and for the purposes set forth.

JONATHAN LILLY.

Witnesses:

L. W. EVERETT,
B. B. PEASE.