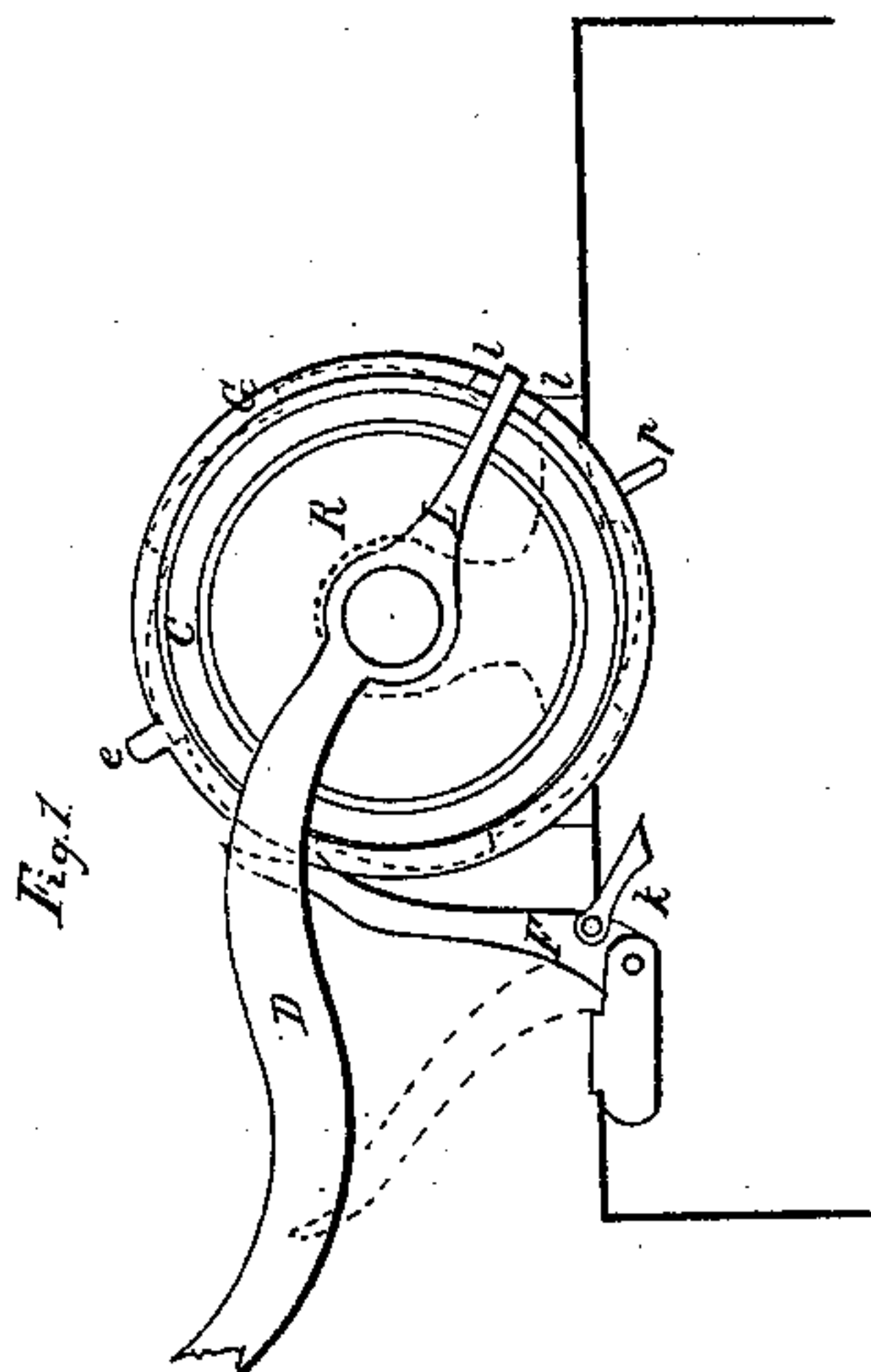
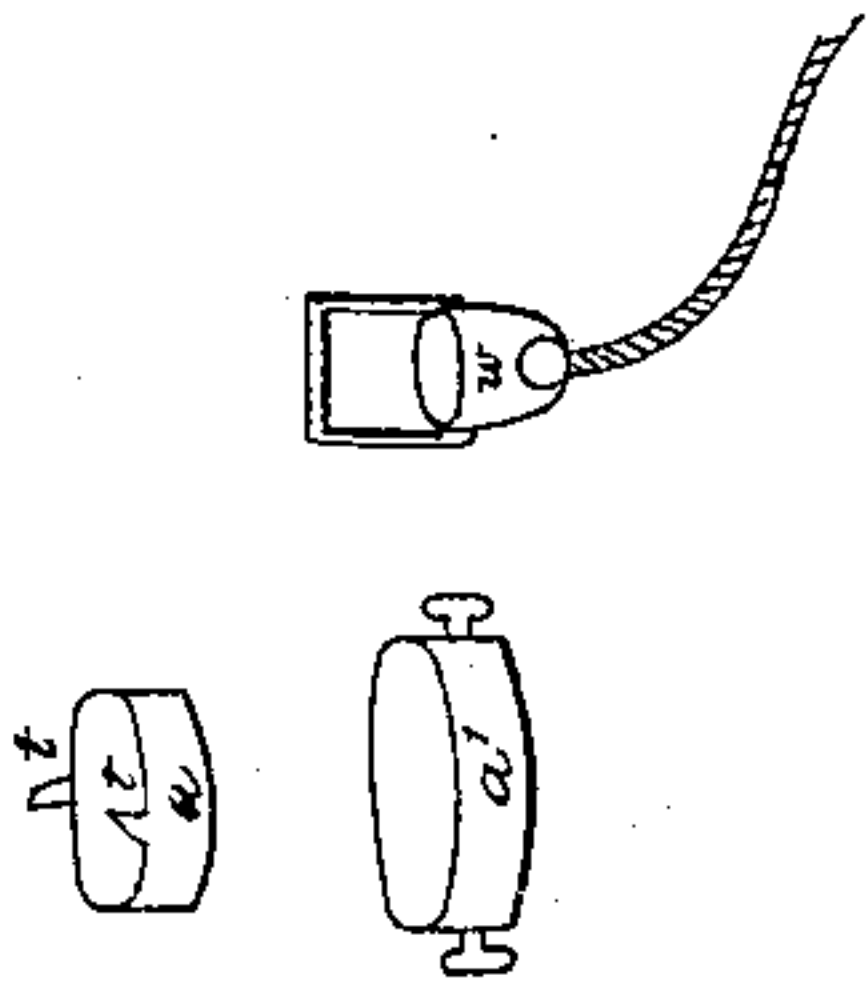
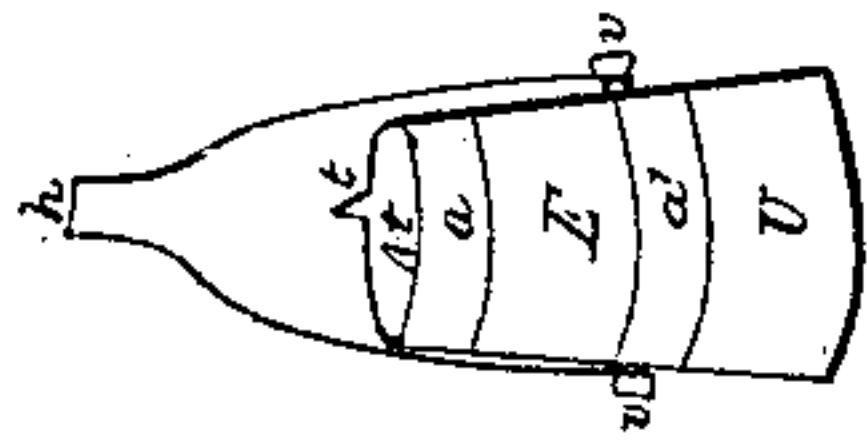
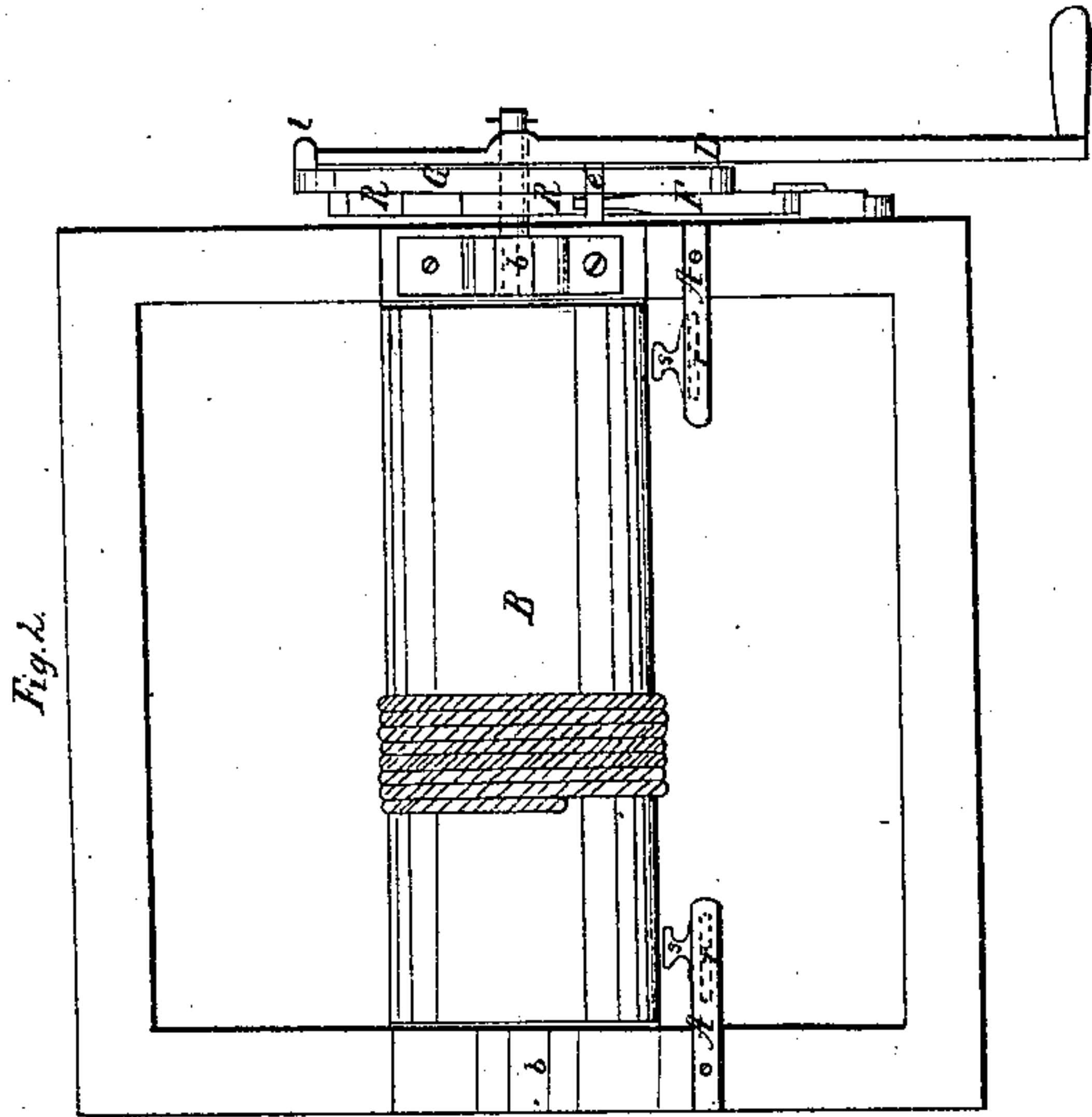


D. E. Teale,

Windlass Water Elevator,

N^o 39,079.

Patented June 30, 1863.



Witnesses:

Thos. Granger
Geo. W. Smith

Inventor:

Daniel E. Teale

UNITED STATES PATENT OFFICE.

DANIEL E. TEALE, OF NORWICH, NEW YORK.

IMPROVEMENT IN WATER-ELEVATORS.

Specification forming part of Letters Patent No. 39,079, dated June 30, 1863.

To all whom it may concern:

Be it known that I, DANIEL E. TEALE, of Norwich, Chenango county, State of New York, have invented certain new and useful Improvements 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 is an elevation, and Fig. 2 a plan, of the same. Fig. 3 shows the improvements in the bucket, together with the attachments.

In Fig. 1 the teeth of the ratchet-wheel R are shown in dotted lines. The crank D is provided with a lever, L, the outer end being confined by the lips or projections *l l*, attached to the eccentric rim G. The pawl F is provided with a catch, *k*, projecting so as to be caught by the projection *p*, attached to the rim G. This is for the purpose of throwing off the pawl F to let the bucket descend and also throwing it on again. The position of the pawl F when thrown off is shown by the dotted lines. By this arrangement the ratchet-wheel is relieved at any time by a slight movement of the crank D, making it only necessary to use one hand in manipulating the elevator. The hook *e* is to hold down the pawl F, and also to throw off or on the pawl F. By extending the crank D and securing the lever L within the lips *l l*, the brake G is operated easily.

In Fig. 2 is shown two stops, *s s*, placed in the arms A A and attached to the well-curb and placed near the two ends of the drum B, for the purpose of directing the coiling of the rope. When the rope reaches one of these stops, it begins to overlap and coil toward the

other end till again arrested by the other stop and turned back. These stops may be adjusted to any convenient distance apart by the slots *r r*, indicated by dotted lines.

In Fig. 3 are shown two bands, *a a'*, of cast or malleable iron. The upper one, *a*, has the two projections or hooks *t t* on the upper edge of it for the purpose of catching the tipping-bail to empty the bucket; and the lower one, *a'*, has two buttons, *v v*, on the outer side of it, to which the bail *h* is attached, thereby avoiding the use of separate hooks and buttons or ears fastened to the bucket by rivets, screws, or other means heretofore used. These bands are made of malleable iron and can be readily put upon the bucket U, making it much stronger than the ordinary bands.

For the purpose of readily and securely attaching the rope to the bucket the cup W is made open at the bottom, through which the rope may be passed and secured by a knot in the end. The cup may be connected with the ordinary tape-chain.

Having thus shown the construction and operation of my improvements, what I claim as my invention, and desire to secure by Letters Patent, is—

1. The catch or click *k*, placed upon the pawl F and operated by the hook *e* and by the projection *p*, placed upon the outer edge of the rim G, as set forth.

2. In combination with the cylinder B and cord, or its equivalent, the stops *s s*, moving in the slots *r r* of the arms A A, as and for the purposes set forth.

DANIEL E. TEALE.

Witnesses:

THEOE. FRANKS,
GEO. W. SMITH.