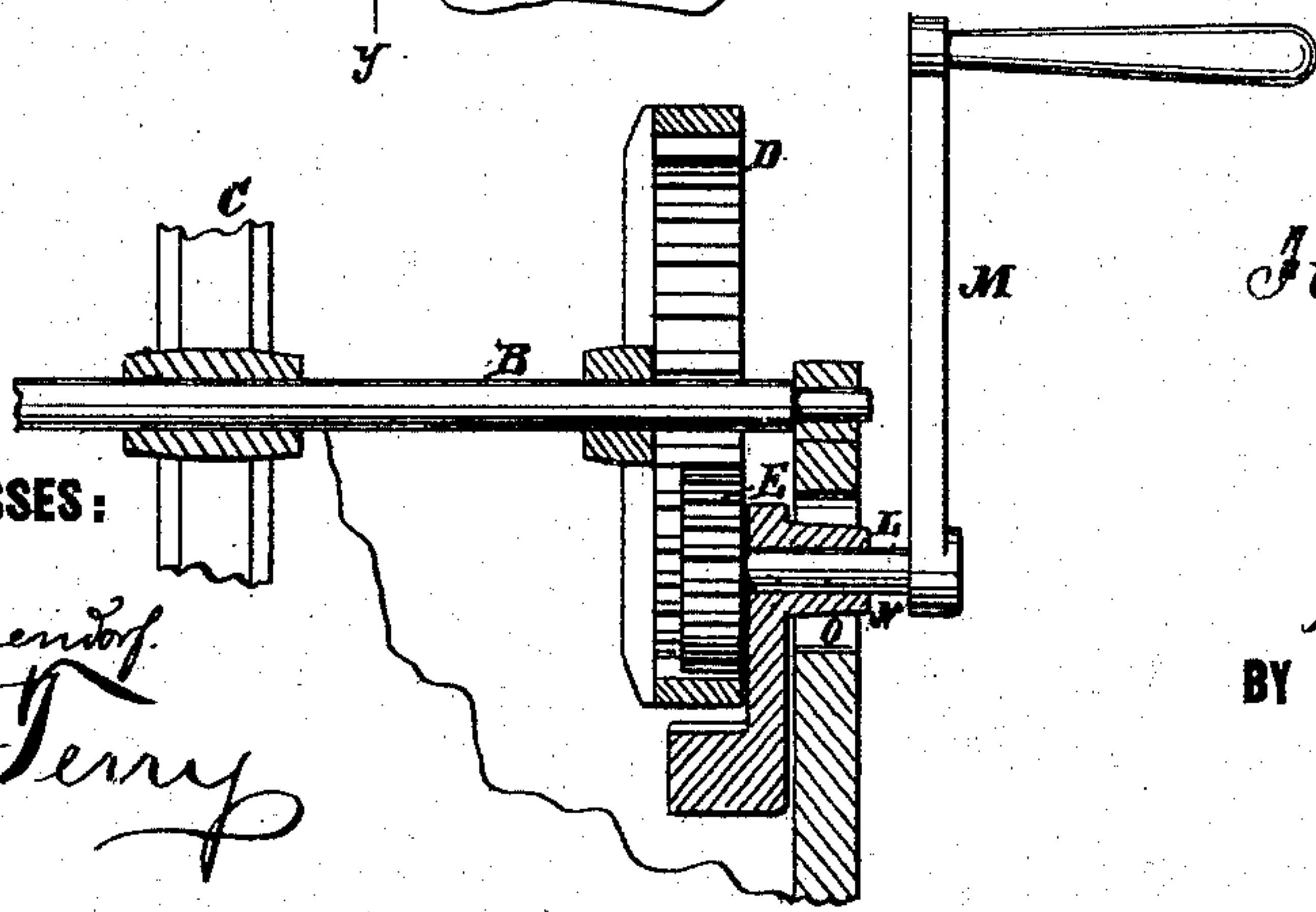
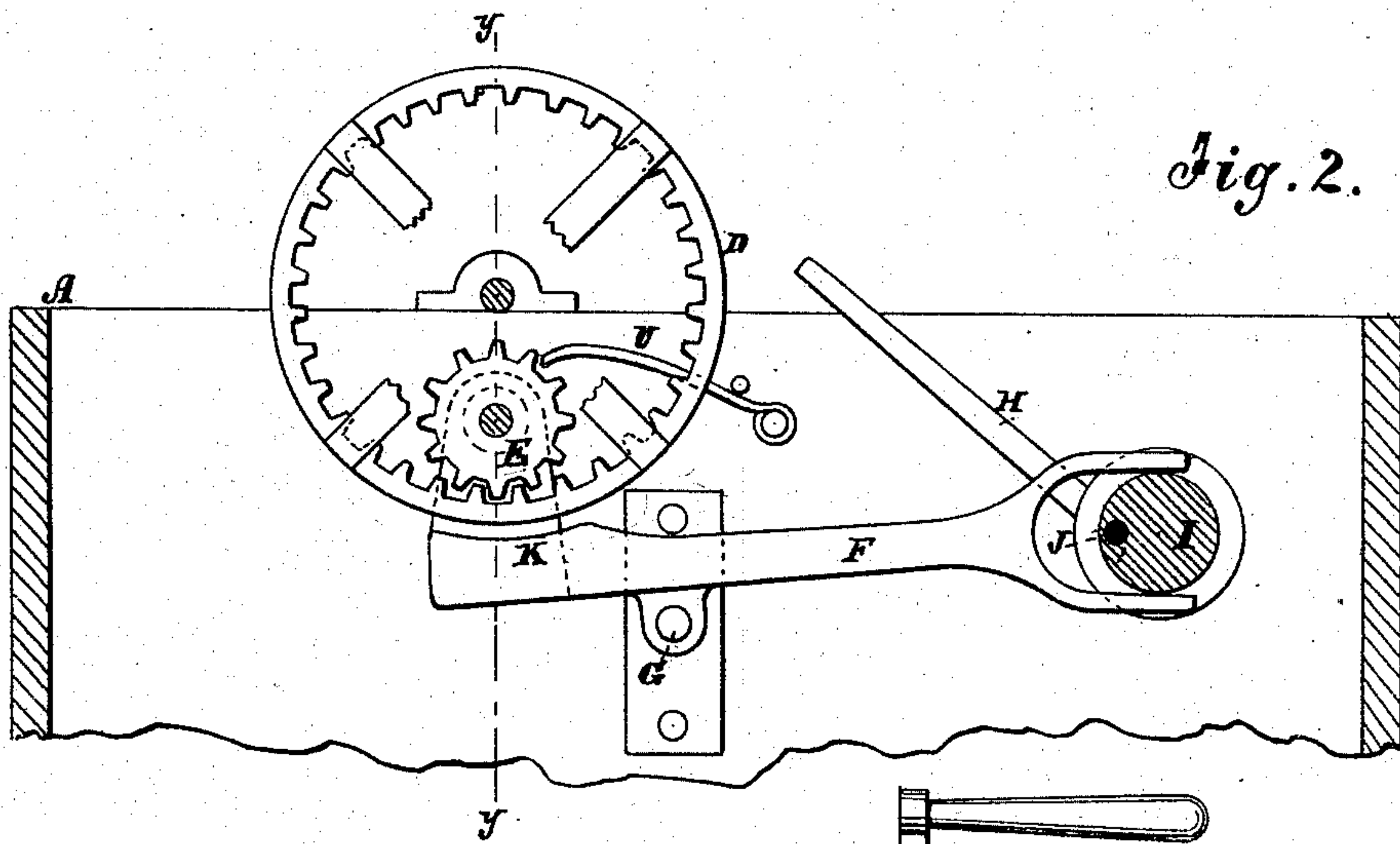
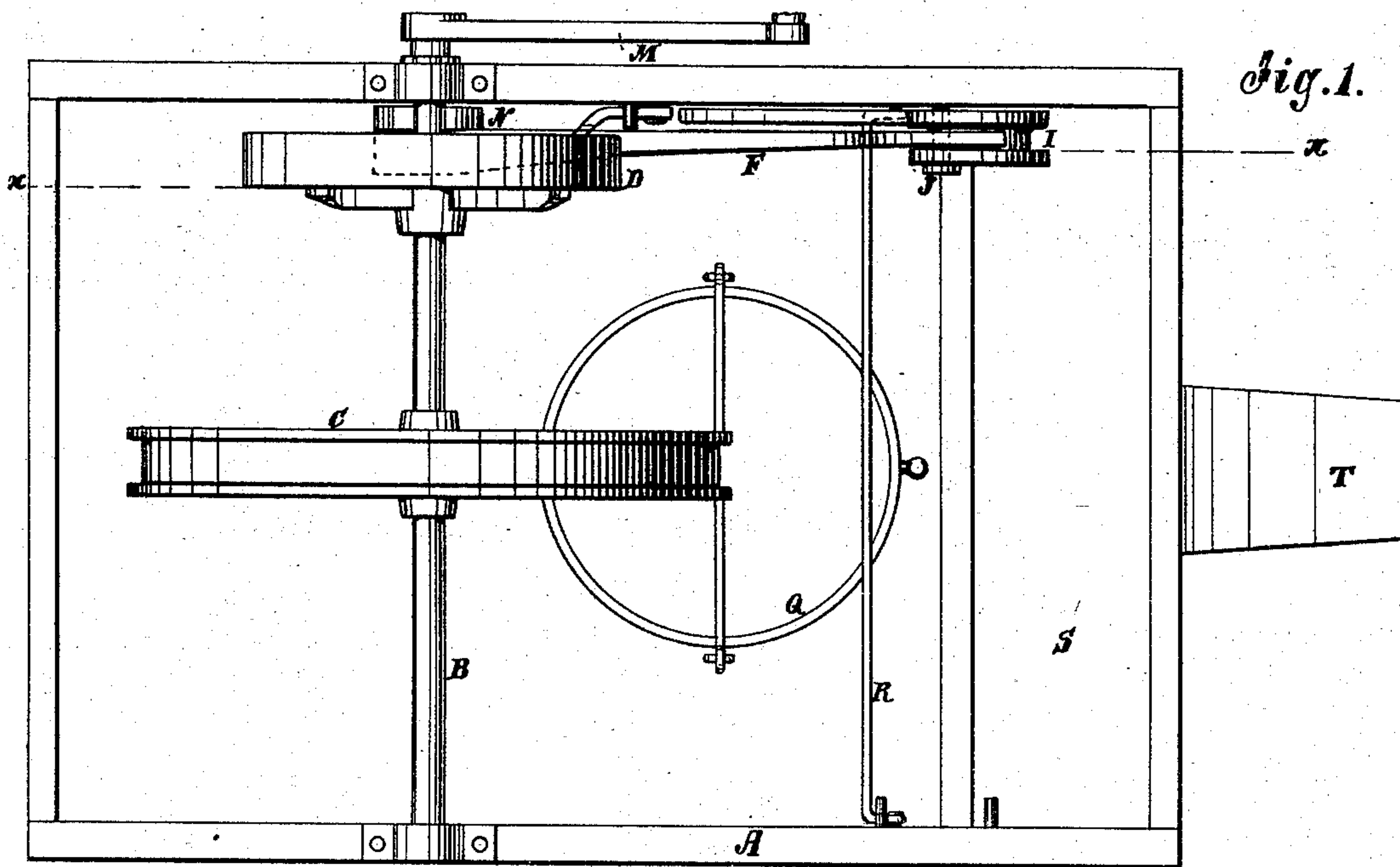


H. M. SWEET.
Water-Elevators.

No. 156,826.

Patented Nov. 10, 1874.



WITNESSES:

A Benneventhof.

A. F. Terry

INVENTOR :

H. M. Sweet
BY *Munn*
ATTORNEYS.

ATTORNEYS.

UNITED STATES PATENT OFFICE.

HENRY M. SWEET, OF EAST HADDAM, CONNECTICUT.

IMPROVEMENT IN WATER-ELEVATORS.

Specification forming part of Letters Patent No. **156,826**, dated November 10, 1874; application filed October 3, 1874.

To all whom it may concern:

Be it known that I, HENRY M. SWEET, of East Haddam, Middlesex county, Connecticut, have invented a new and useful Improvement in Water-Elevators, of which the following is a specification:

The invention will first be fully described, and then pointed out in the claim.

Figure 1 represents a top view. Fig. 2 is a vertical section of Fig. 1, taken on the line *x x*; and Fig. 3 is a vertical section of Fig. 2, taken on the line *y y*.

Similar letters of reference indicate corresponding parts.

A is the curb; B, the windlass-shaft; C, the windlass-wheel. D is an internal gear-wheel, which is fast on the shaft B. E is the driving-pinion, which is made to engage with the internal gear-wheel D. F is the brake-lever, whose fulcrum is at G. This lever is operated by the eccentric lever H. I is the eccentric, which is fastened to the side of the curb by the pivot J. The other end of the brake-lever is made to bear against the periphery of the internal gear-wheel D by drawing the lever to an upright position. The surface K, which bears upon the wheel, is faced with leather, or similar material, which may be renewed as occasion may require. L is the driving-shaft, to which the driving-crank

m is attached. This shaft passes through a box-flange, N, which is attached to the brake-lever. This box-flange is made to slide in the slot O of the curb sufficiently to throw the pinion E out of gear with the wheel D. The pinion is thrown out of gear, at the same time that the brake is applied, by manipulating the lever H. By means of the lever H the bucket may be stopped, when full of water, at any desired point. The windlass-wheel may be made in any form, and the bucket may be suspended by a flat metallic chain or rope, as may be desired, the windlass-wheel being varied as may be necessary for that purpose. Q is the bucket, which is made to tilt automatically on the cross-bar R as it is raised, and so as to empty the water into the compartment S and spout T. U is a holding-pawl.

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

The box-flange N, attached to the brake-lever F, and operating on the pinion E, as and for the purposes described.

HENRY M. SWEET.

Witnesses:

T. B. MOSHER,

ALEX. F. ROBERTS.