

S. R. THORP.

Odometer.

No. 11,877.

Patented Oct. 31, 1854.

Fig. D

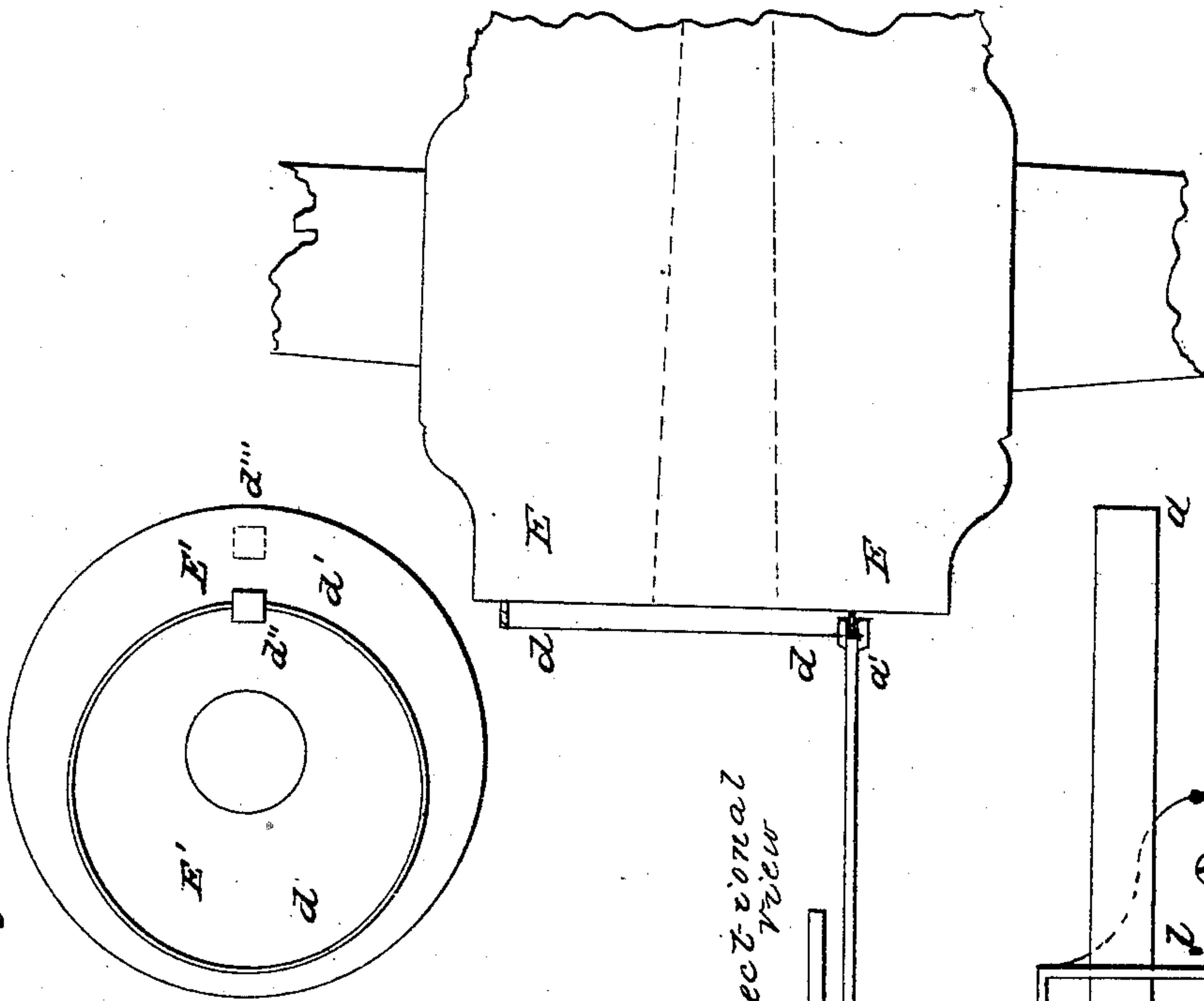
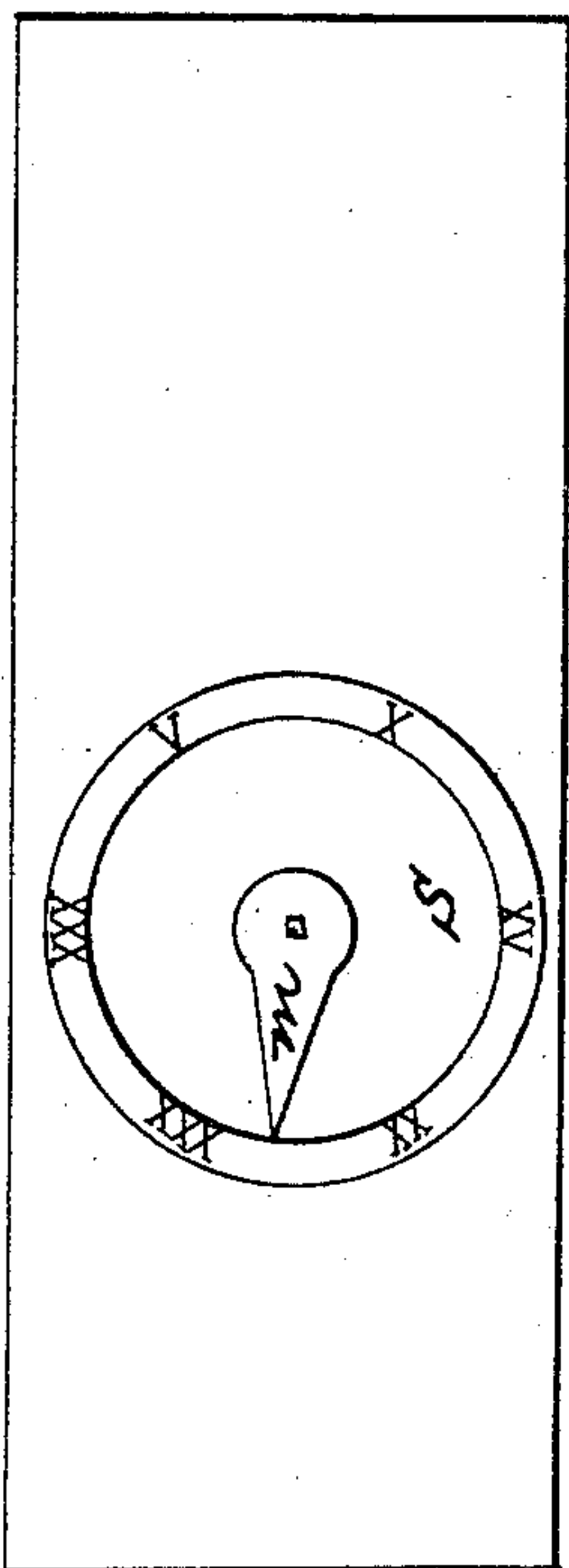


Fig. C.



WITNESSES  
Emma B. Thorp  
Elizabeth

Fig. B. sectional view

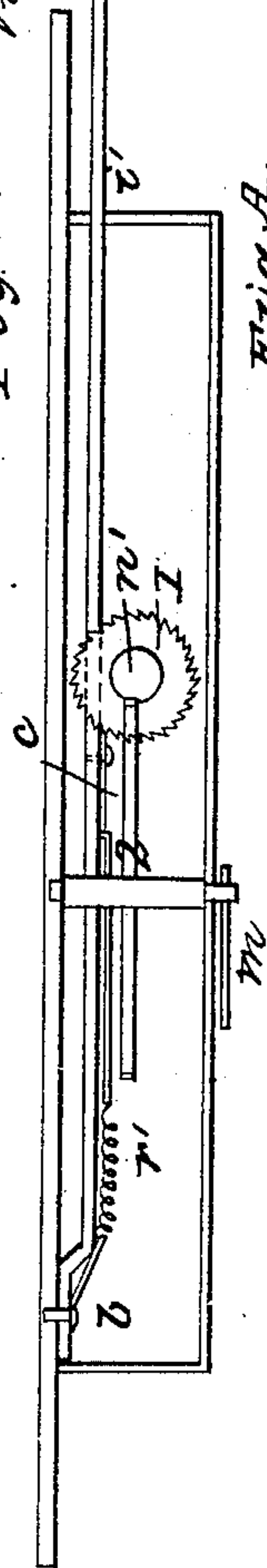
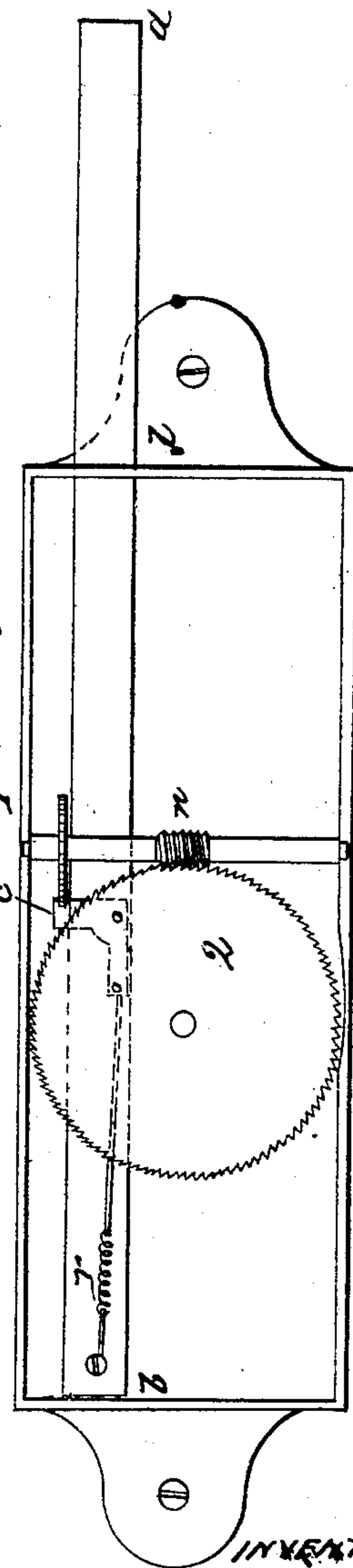


Fig. A.



INVENTOR  
Saml R. Thorp,

# UNITED STATES PATENT OFFICE.

SAML. R. THORP, OF BATAVIA, NEW YORK.

## ODOMETER.

Specification of Letters Patent No. 11,877, dated October 31, 1854.

*To all whom it may concern:*

Be it known that I, SAMUEL R. THORP, of Batavia, in the county of Genesee and State of New York, have invented a new and Improved Odometer; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings and to the letters of reference marked thereon.

10 Figure A is a vertical section lengthwise of the case and contents. Fig. B is a horizontal section of the same. Fig. C is the face with a graduated disk *s* traversed by the hand or index *m, m'*. Fig. D, is end of the hub.

15 *a b, a' b'* is a spring flexible between its two bearings *b b'* and *i, i'*. Its end *a a'* is grooved perpendicularly to be worked by the edge of an eccentric band *d d, d' d'* attached to the hub, *e e, e' e'*. Thus at each revolution of the hub, the spring *a b, a' b'*

will vibrate horizontally, *a, a'* taking the positions *d''* and *d'''*. This vibration of *a a'* will cause a vibration within the case at *c, c'* which is a catch attached to the spring 25 and turning the ratchet wheel No. 1, 1', notch by notch. From wheel No. 1, 1' the motion may be reduced at pleasure as by the screw *n n'* and the notched wheel No. 2, 2' which bears the index, *m, m'*. *v, v'* is a 30 spiral spring to keep the catch *c c'* in place.

What I claim as my invention and wish to secure by patent is,

The peculiar combination the spring *a b, a' b'* with the band *d d, d' d'* and the ratchet 35 wheel No. 1, 1'.

All else I disclaim.

SAMUEL R. THORP.

Attested by:

EMMA B. THORP,  
POLLY THORP.