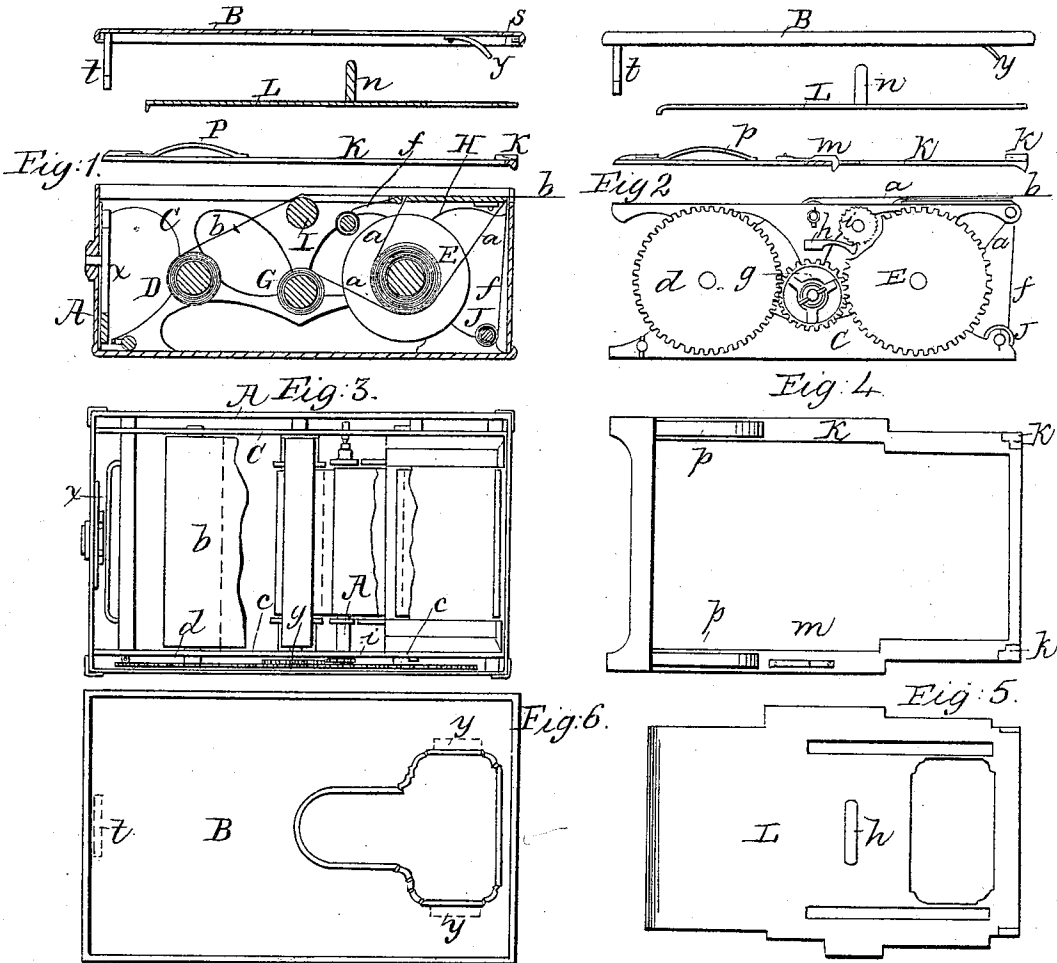


MATTEN & PEASE.
Fare Recorder for Cars.

No. 110,770

Patented Jan'y 3, 1871.



Witnesses
Chas Jacobs.
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UNITED STATES PATENT OFFICE.

GEORGE R. METTEN, OF CLEVELAND, AND OSCAR S. PEASE, OF XENIA,
OHIO; SAID METTEN ASSIGNOR TO SAID PEASE.

IMPROVEMENT IN FARE-RECORDERS FOR CARS, &c.

Specification forming part of Letters Patent No. **110,770**, dated January 3, 1871.

To all whom it may concern:

Be it known that we, GEORGE R. METTEN, of Cleveland, in the county of Cuyahoga, and OSCAR S. PEASE, of Xenia, county of Greene, and State of Ohio, have invented certain new and useful Improvements in Duplicate Registers; and we do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

Our invention relates to the patent for duplicate register issued to O. S. Pease, June 7, 1870; and consists in certain improvements thereon, which will be hereinafter fully set forth.

In order to enable others skilled in the art to which our invention appertains to make and use the same, we will now proceed to describe its construction and operation, referring to the annexed drawings, in which—

Figure 1 is a longitudinal vertical section of our machine. Fig. 2 is a side view with the casing removed, and Fig. 3 is a plan view of the same. Figs. 4 and 5 are plan views of the frame and plate which constitute the operating mechanism, and Fig. 6 is a plan view of the cover.

A represents the box or casing, provided with the cover B, and within which the entire apparatus is placed. C is a frame, resting upon the bottom of the box A. In this frame are placed three rollers, D E G, upon the journals of which are placed cog-wheels *d e g*, gearing with each other. Upon the end roller E is wound the paper strip *a*, which passes over the plate H in the top, at one end of the frame C, and then down to the center roller G, upon which it will be rolled up. Over the paper *a* on the plate H passes the inked ribbon *f*, and on top of this inked ribbon passes the end of the other paper strip, *b*, which is wound upon the roller D. The inked ribbon *f* is wound upon two rollers, I J, one of which is provided with a small ratchet-wheel, *i*, and pawl *h*, as shown in Fig. 2.

On top of the frame C containing the above mechanism is laid a frame, K, having on each side, at its front end, a small block or projection, *k*, which is cut out beveled from under-

neath, on the inner side, as seen in Fig. 1. The frame K is also provided with a small hook, *m*, which projects downward to engage with the ratchet-wheel *i*. On top of the frame K is laid a plate, L, the front corners of which are cut out and beveled to fit under the beveled projections *k k*. This plate is also provided with an upward projection, *n*, by which the same is moved, and also with an opening corresponding with the plate H. The frame K has also, on its upper side, two springs, *p p*, which project through the plate L and bear against the cover B to hold said frame down to the frame C. The cover B is, at one end, provided with two inward-projecting pins, *s s*, which are inserted in holes in the end of the box A, and at the other end of the cover is a double downward-projecting hook, *t*, caught by two spring-jaws, *x x*, inside of the box, by means of which it is locked. On the under side of the cover are two springs, *y y*, which pass through the plate L and frame K and bear on the upper paper-strip, *b*. The cover has also an opening corresponding with the opening in the plate L, and for the projection *n* to pass through.

This register is intended, mainly, for the use of conductors of railroads, who are to note down upon the upper strip of paper each successive amount of fares received by them, and then tear the same off, in the manner herein-after set forth. These amounts then also appearing upon the lower strip of paper, their accounts can then readily be verified at the time of delivering the funds received by them.

The upper paper strip, *b*, is passed between the front ends of the frame K and plate L, and held down sufficiently tight by the springs *y y*. The conductor making his memorandums on this paper, they are of course transmitted onto the lower paper. Now take hold of the projection *n* and move the plate L forward. For a very short space this plate moves alone, wedging the paper *b* between it and the frame K by means of the beveled projections *k k*, when the plate, paper, and frame all move together, the paper unwinding from the roller D. The unwinding of the paper *b* causes, through the gearing *d e g*, the lower paper, *a*, to be moved sufficiently to carry off so much as contains the marks made through

the medium of the inked ribbon. When the plate and frame are moved back the plate moves first alone sufficient to release the paper *b*, which is there held by the springs *y y*, so as to remain stationary while the plate and frame are moved back to their original positions. The projecting end of the paper *b* is then torn off. While the frame *K* moves backward the spring-hook *m* catches on the ratchet-wheel *i*, so as to turn the roller *I* sufficient to change the inked ribbon *f* on the plate *H*.

Having thus fully described our invention, what we claim as new, and desire to secure by Letters Patent, is—

1. The cut out and beveled projections *k k*, arranged, as described, upon the frame *K*, and used in combination with the beveled corners of the plate *L*, substantially as and for the purposes herein set forth.

2. The spring-hook *m*, arranged, as described, on the frame *K*, and used, in combination with the ratchet-wheel *i* on the roller *I*, to change the inked ribbon *f*, substantially as herein set forth.

3. In combination with the above, the frame *K*, with projections *k k*, hook *m*, and springs *p p*, the plate *L*, with projection *n*, and the cover *B*, with springs *y y*, all substantially as and for the purposes herein set forth.

In testimony that we claim the foregoing as our own we affix our signatures in the presence of two witnesses.

GEORGE R. METTEN.
OSCAR S. PEASE.

Witnesses:

C. M. STONE,
J. W. SIMPSON.