J. ANDERSON.

Ticket Printing-Machine.

No. 159,293. Patented Feb. 2, 1875.

Fig. 1.

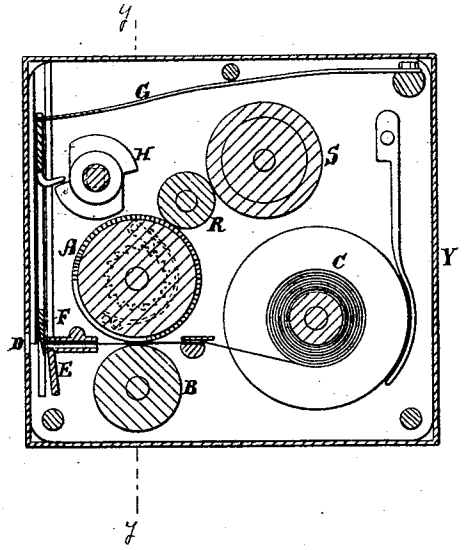


Fig. 2.

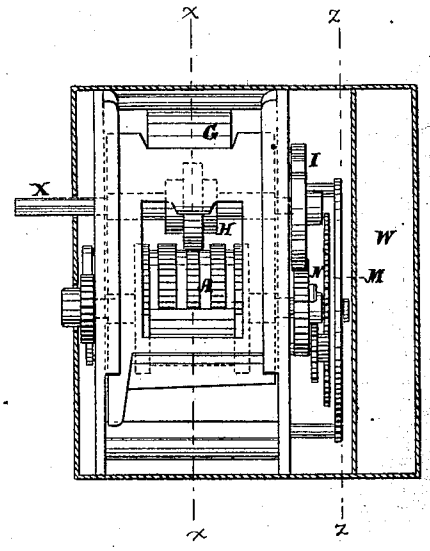


Fig. 3.

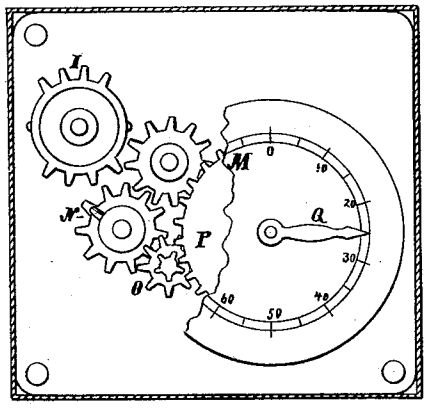
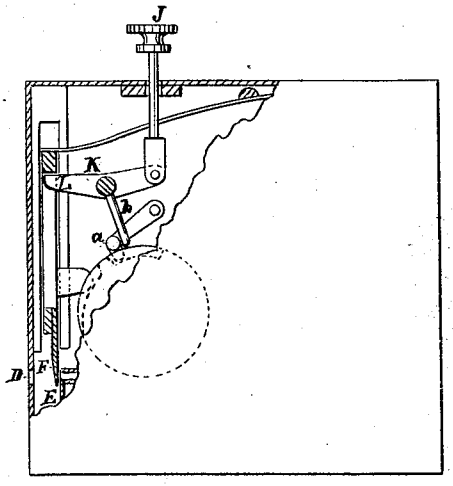


Fig. 4.



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UNITED STATES PATENT OFFICE.

JAMES ANDERSON, OF NEW YORK, N. Y.

IMPROVEMENT IN TICKET-PRINTING MACHINES.

Specification forming part of Letters Patent No. **159,293**, dated February 2, 1875; application filed December 5, 1874.

To all whom it may concern:

Be it known that I, JAMES ANDERSON, of the city, county, and State of New York, have invented a new and Improved Ticket Printer and Recorder, of which the following is a specification:

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

Figure 1 is a sectional elevation of my improved ticket printer and recorder, taken on the line *x x*, Fig. 2. Fig. 2 is a sectional elevation of Fig. 1, taken on the line *y y*. Fig. 3 is a sectional elevation of Fig. 2 on the line *z z*, and Fig. 4 is a sectional elevation of an instrument with some modifications of the operating-gear.

A and B represent a pair of printing-rolls, between which the paper is drawn from a spool, C, printed and caused to issue from the case at D, passing between the cutters E F, which cut off a ticket at each half-revolution of the printing-rolls, the cutter F being forced down by a spring, G, which is restrained by a cam while the paper is moving, and released by it at the proper time for the cutter to strike.

In Fig. 1 the cam H is employed for raising, holding, and tripping the cutter, said cam being geared with the printing-rolls by a mutilated wheel, I, which allows the rolls to rest while the cutter is being raised out of the way of the paper, which would be moved against the cutter and obstructed by it if the rolls moved ahead of the cutter, as they do when the cam for raising the cutter is on the printing-roll until the notch of the cam passes the piece on which the cam acts; but, as it may not in some cases be desirable to use a cam independent of the printing-rolls, and geared to them in this manner, the cutter may be lifted by a push-pin, J, and lever K, to be worked by hand before turning the rolls, one of which may have cams L to hold the cutter up as soon as the roll is turned far enough, so that the push-pin may be released by the thumb to leave the cutter free to be thrown back by the spring.

a represents a little frame to prevent the printing-roll from turning backward or forward while the cutter F is down. It is tripped to release the roll when the cutter rises by the arms *b*.

The printing-roll A gears with the recording apparatus M by a pin, N, which, at each half-revolution, turns the wheel O one tooth, and this wheel O gears with the wheel P, which turns the pointer Q.

The printing-roll A has the ink supplied to it by the inking-roll R, which is supplied by a felt or sponge roll, S, on which the ink may be applied by a brush from time to time.

This instrument is designed essentially for making tickets to be given by the conductors to passengers when they pay their fares, so that he can be detected by those not receiving tickets in case he does not give them; but it will be found convenient for other purposes.

In case the tickets are to be taken up by the conductor when the passengers leave, a pocket, W, may be provided in the case for the reception of them.

The rolls will be turned by a crank or key applied to the shank X, and the apparatus will be inclosed in a lock-up case, Y, to prevent the operator from shifting it to make false records.

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

1. The combination, with spring-pressed cutter F, of push-pin J and lever K L, as and for the purpose specified.

2. The frame *a* and arms *b*, combined with the printing-roll, as and for the purpose described.

JAMES ANDERSON.

Witnesses:
T. B. MOSHER,
ALEX. F. ROBERTS.