W. MEHAN.

PASSENGER REGISTER.

No. 183,410. Patented Oct. 17, 1876.

Fig: 1.

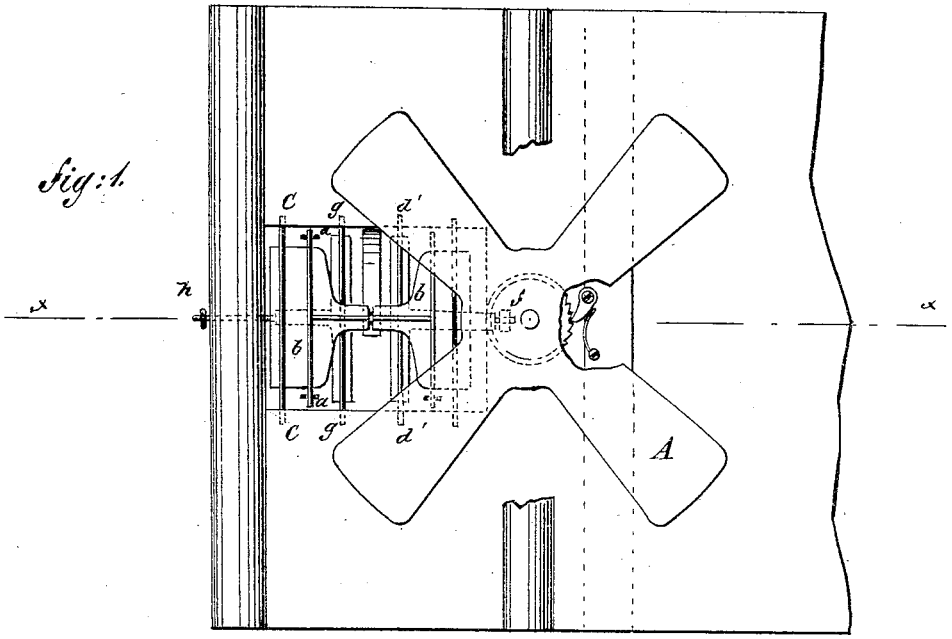
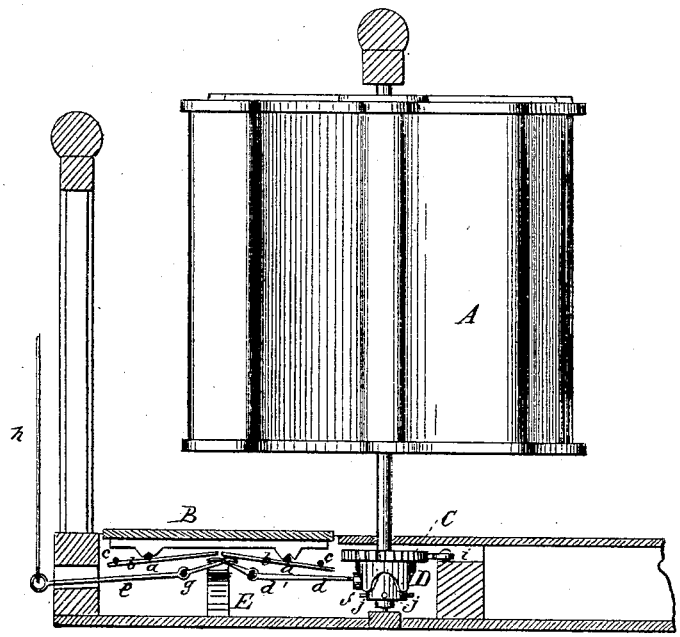


Fig: 2.



WITNESSES:

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UNITED STATES PATENT OFFICE.

WILLIAM MEHAN, OF HOBOKEN, NEW JERSEY, ASSIGNOR TO HIMSELF, HEZEKIAH BUTTS, AND JNO. EGAN, OF SAME PLACE.

IMPROVEMENT IN PASSENGER-REGISTERS.

Specification forming part of Letters Patent No. **183,410**, dated October 17, 1876; application filed August 28, 1876.

To all whom it may concern:

Be it known that I, WILLIAM MEHAN, of Hoboken, in the county of Hudson and State of New Jersey, have invented a new and Improved Passenger-Register, of which the following is a specification:

Figure 1 is a plan view. Fig. 2 is a side elevation, in part section, on line *x x* in Fig. 1.

My invention consists in the arrangement of a cam and friction-roller with a turnstile and movable platform, so constructed that the person passing the turnstile must step upon the movable platform, by the motion of which, under control of the cam, the apparatus is made to register once, and cannot be made to do more or less.

A is a turnstile, placed in the passage through which passengers must pass, and B is a movable platform, resting on pivots *a* on the levers *b*, which are journaled in the frame which supports the turnstile at *c*. The free ends of these levers rest upon the shorter ends of the levers *d e*. The lever *d* is pivoted at *d'*, and is provided with a friction-roller, *f*, at its longer end. The lever *e* is pivoted at *g*, and is connected at its outer end with a rod, *h*, that works the registering apparatus. C is a ratchet-wheel placed on the turnstile-shaft, and provided with a pawl, *i*, that prevents it from turning backward. A cam, D, is attached to the turnstile-shaft immediately below the ratchet C, and is provided with four concaved notches, into which the friction-roller *f* may drop, which corresponds with the spaces in the turnstile. Pins *j* are placed centrally in the notches in the cam, leaving sufficient space for the roller *f* to follow the cam without striking the pins. E is a heavy spring, that can be depressed only by the weight of a person upon the platform. Any suitable registering apparatus may be connected with the rod *h*.

The operation of my invention is as follows: A person entering the turnstile passes over the movable platform, and in so doing depresses the levers *b b*, and consequently the shorter ends of the levers *d e*. This causes the longer end of the lever *d* to rise into and follow the notch in the cam D as the turnstile is turned. This allows the lever *e* to move, carrying the rod *h* upward and operating the registering apparatus.

It will be seen that one passenger cannot register twice, as the pin *j* prevents the roller *f* and lever *d* from dropping, so that a full stroke can be made. When there is no weight on the platform B the roller *f* rests below the pin *j*, and the turnstile may be turned without registering. The pawl *i* and ratchet C prevent the apparatus from turning backward, so that persons going in must step on the platform, while persons passing out may go on the other side.

The top of the turnstile may be corrugated or provided with ridges or points, to prevent passengers from riding on it through the passage.

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

In combination with a turnstile, A, and ratchet C, the cam D, having concave notches, and the pins *j* centrally located in the notches, the levers *d e* and *b b*, spring E, and platform B, substantially as herein shown and described.

WILLIAM MEHAN.

Witnesses:

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GEO. M. HOPKINS.