(No Model.)

J. M. O'KELLY.

PASSENGER RECORDER FOR PUBLIC VEHICLES.

No. 478,016. Patented June 28, 1892.

Fig. I.

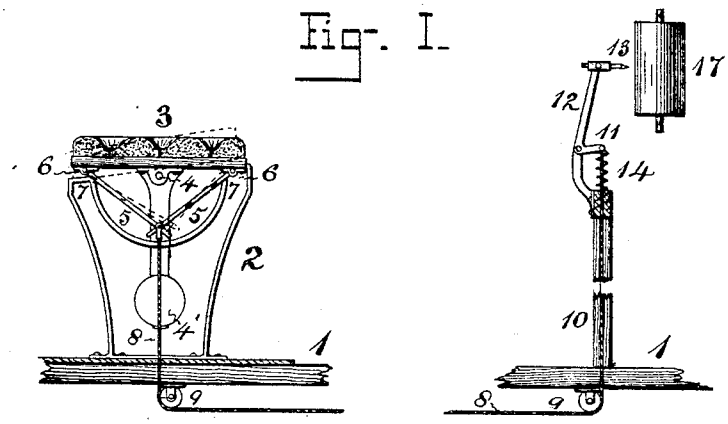
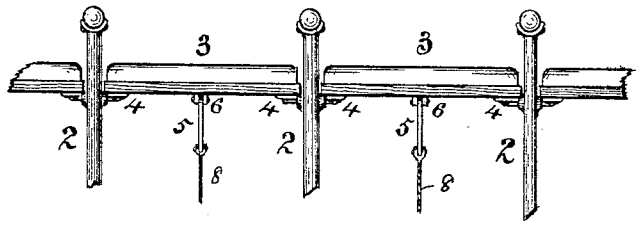


Fig. II.



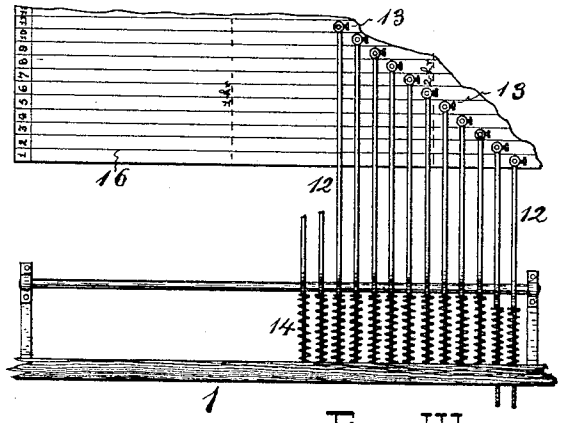
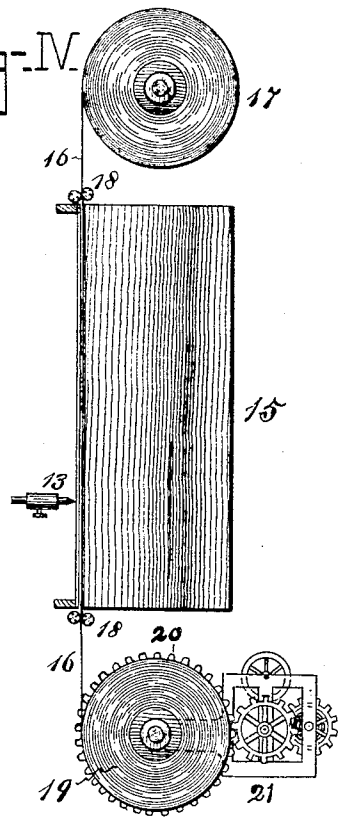


Fig. III.

Fig. IV.



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UNITED STATES PATENT OFFICE.

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PASSENGER-RECORDER FOR PUBLIC VEHICLES.

SPECIFICATION forming part of Letters Patent No. 478,016, dated June 28, 1892.

Application filed March 16, 1891. Serial No. 385,159. (No model.)

To all whom it may concern:

Be it known that I, JAMES M. O'KELLY, a citizen of the United States, residing at New York, N. Y., have invented a new and useful Passenger-Recorder for Public Vehicles, of which the following is a specification.

My invention is designed as an appendage to tram and railway cars, having for its object the automatic recording of the occupancy of each seat.

In the accompanying drawings, which form a part of this specification, Figure I is a partly-sectioned elevation of a seat and connected recording mechanism. Fig. II is an elevation at right angles to Fig. I. Fig. III is a fragmentary elevation, and Fig. IV is a plan of the recording device proper.

1 may represent part of a car-floor, and 2 the supporting frame or standard of a seat or range of seats 3. Each seat is supported on a fulcrum 4, transverse of the seat, so that on said seat being occupied by a passenger it will tip either forward or backward.

4′ represents a plumb, which operates to restore the seat 4 to its normal position.

5 5 are levers pivoted to the seat at 6 6 and resting on fulcrums 7 7, so that on said seat being tipped or depressed, as aforesaid, one or other rod will assume the position indicated by dotted lines in Fig. I in such a way as to draw or pull a cord 8, which, being rove around sheaves 9 9, is conducted upward along a post 10 and attached to the shorter limb 11 of a bent lever 11 12, whose longer limb 12 carries a pencil 13. A spring 14 operates to normally hold the pencil to its retracted and inoperative position (shown in Fig. I) at all times, except when acted on by depression of the seat, with which it is connected. Each seat is equipped with such a recording pencil or stylus and operative connection.

15 is a tablet fixed at a convenient part of the car.

16 is a paper strip or blank whose face is marked off with horizontal columns—one for each seat—and vertical columns having hour-marks. This strip is wound upon a spool 17 and has one end of it carried forward between guides 18 in front of and parallel to the tablet to a drum 19, that is driven by connection of cog-wheel 20 with suitable clock-work 21.

The above-described form of my invention may be modified as follows: 13 may represent a steel stylus, and 16, Fig. III, a sheet of paper coated with some transferring-pigment (such as a carbon or an aniline paste) to be fastened in front of the tablet 15, Fig. IV, and renewed as often as may become necessary. The seat may be arranged to operate by descending bodily instead of by the above-described rocking or tipping action.

In practice the recorder will be located in a locked closet, accessible only to one in possession of a special key.

Having thus described my invention, the following is what I claim as new therein and desire to secure by Letters Patent:

In a passenger-recording device, the combination of depressible seat 3, levers 5 5, cord 8, pencil-holder 11 12, spring 14, tablet 15, strip or blank 16, spool 17, drum 19, cog-gearing 20, and clock mechanism 21, all arranged substantially as and for the purposes set forth.

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