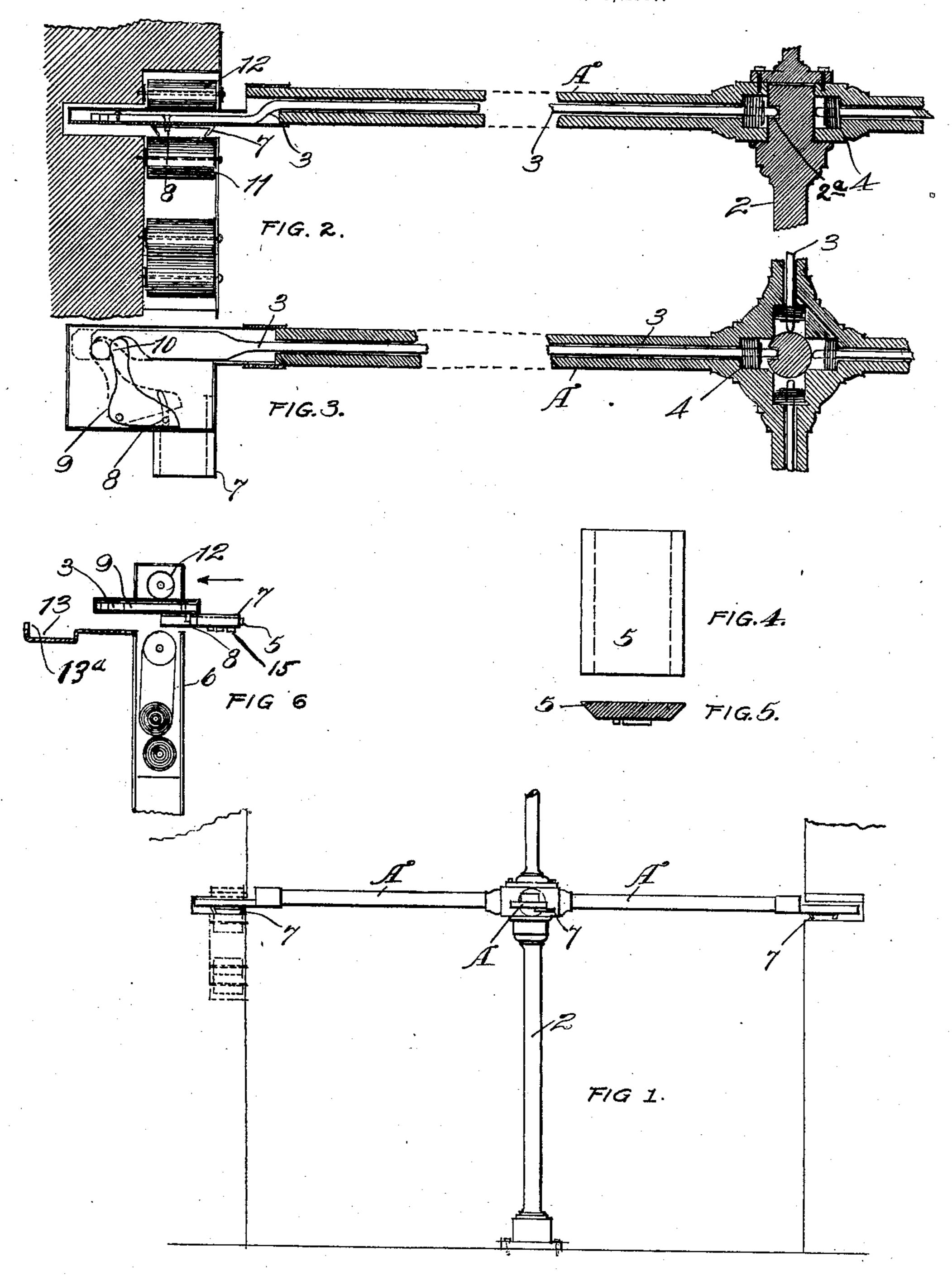
## C. METZLER.

## PASSENGER RECORDER.

APPLICATION FILED SEPT. 13, 1907.



MITNESSES: Lengiees

A Some

INVENTOR; Conrad TMetz. Zer By Eco. H. Chrong,

## UNITED STATES PATENT OFFICE.

CONRAD METZLER, OF FRESNO, CALIFORNIA.

## PASSENGER-RECORDER.

No. 897,762.

Specification of Letters Patent.

Patented Sept. 1, 1908.

Application filed September 13, 1907. Serial No. 392,774.

To all whom it may concern:

Be it known that I, Conrad Metzler, citizen of the United States, residing at Fresno, in the county of Fresno and State of California, have invented new and useful Improvements in Passenger-Recorders, of which the following is a specification.

My invention relates to an apparatus which is designed for recording the movements of passengers upon railway and like trains, and for other similar purposes where it is desirable to accurately know the movements of people to and from cars, boats and the like.

It consists in the employment of a metal ticket having an imprinting surface and one or more turnstiles, and the combination of receiving and recording mechanism which will be more fully explained by reference to the accompanying drawings, in which—

Figure 1 is an elevation of the turnstile. Fig. 2 is a vertical section of the mechanism. Fig. 3 is a horizontal section through an arm. Figs. 4 and 5 are plan and section views of disk or ticket. Fig. 6 is a vertical section of the printing device.

It is the object of my invention to accurately indicate and record the movements of passengers to and from traveling convey-30 ances; and for this purpose I employ a metal ticket having destination of passenger, and such other matter as is found requisite, engraved upon it, and a mechanism through which the ticket is passed when the passen-35 ger enters the conveyance so that the necessary information is recorded on said mechanism and the ticket afterwards returned to the passenger. When the passenger leaves the conveyance he passes through another gate, 40 the mechanism connected with which again recording the fact of his leaving the train at the proper destination, and the ticket is there given up and retained.

The ticket consists of a metal disk or plate
which may be of any suitable or desired form
and dimensions and upon one side of this
ticket may be cast, engraved or otherwise
formed such recording characters as may be
found desirable for the use to which the
ticket is to be put. For a traveler the information requisite might be the station at
which the ticket was purchased and the destination of the passenger, and the apparatus
for recording will show the entrance of the
passenger and point of his departure from

the train which will insure that the ticket has not been illegitimately used.

As shown in the drawings A represents the arms of a vertically mounted, horizontally turnable turnstile or gate, and 2 a fixed post 60 upon which the hub of the arms is turnable.

3 are spring-pressed bars slidable within the hollow arms A, and 4 are springs by which these rods are normally pressed against the periphery of the stem or standard 65 2 at this point. This standard has a depression or socket 2<sup>a</sup> in one side and in line with two of the opposite arms A when the latter are in position to bar the passage through the door or entrance to the car, or other means of 70 transportation.

Within the door jamb, or conveniently located with relation thereto is the ticket re-

ceiving and recording device.

The ticket consists of a metal disk or plate 75 5 which may be made of any suitable or desired shape. It is here shown as being beveled upon the edges, and having marked upon one face, characters which will indicate the destination of the passenger, or other matter. 80 These raised characters serve to imprint upon a traveling tape, or other receiving surface 6, a record of the ticket. The ticket is introduced into a correspondingly shaped chute 7 when the passenger desires to pass, and being 85 pushed in it contacts with a pin 8 carried upon a bell-crank lever 9, the end of which lever engages with the inner end of the rod 3, as shown at 10 so that when the ticket is thus introduced it acts through the pin to move 90 the lever, and thus retract the rod 3, and disengaging it from the latch or socket by which the turnstile has hither to been retained in position, it allows the turnstile to move a quarterrevolution as the passenger passes through, 95 and the next arm 3 will then have arrived in line with the latch or socket, and the turnstile will again be locked. As the arm A is moved along carrying the ticket in its chute, the ticket passes over the tape 6 which is 100 preferably coiled upon rollers, and the tape may be moved in unison with the movement of the ticket so that when the ticket arrives above the roller as at 11, the characters 15 upon it will be imprinted upon the tape by 105 means of any suitable transferring ribbon or sheet properly disposed with relation to the surface to be printed upon.

A sufficient pressure may be imposed upon the ticket as it passes by means of a spring- 110 pressed, or other roller 12, between which and the roller 11, the ticket is caused to pass, and as it passes and imprints its characters upon the tape the tape will also be advanced so as

5 to present a clean surface for the next ticket. The sides of the sheet metal chute 7 are sufficiently elastic to retain the ticket until by the revolution of the arm A the ticket has been moved to a position above the receiving 10 tray 13. The ticket at this point contacts with the pin 13<sup>a</sup> which projects above the edge of the receiver, and the continued movement of the arm ejects the ticket from its chute so that it drops into the receiver 13, 15 this pan or tray being located just within the door of the vehicle so that the passenger may at that point recover his check or ticket and keep it in the same manner that he would any other form of ticket. Thus all passen-20 gers entering the car, boat, or other vehicle will be recorded while at the same time keeping their respective tickets. In order to also indicate that the passenger leaves the car at the intended station, such passengers are 25 caused to leave the car by a separate exit which may be at the same end, or at the opposite end of the car. At this point will be located another turnstile similar to that herein described, and the passenger here de-30 posits his check in a chute similar to that described at 7, and only differing from the previously described mechanism in the employment of a closed receptacle in place of the tray 13 so that after the ticket disk has been

Having thus described my invention what I claim and desire to secure by Letters Pat-40 ent is—

receptacle by authorized persons with a key

35 deposited, it can only be recovered from the

thereto.

1. A passenger and like recording apparatus, said apparatus including a metal character - bearing ticket, or check, a turnable gate, a locking device therefor, a ticket or check-receiving chute, mechanism actuated by the passage of said check to unlock the gate, and a recording mechanism imprinted by the passage of the ticket.

2. In a passenger recording apparatus, a metal printing ticket, a turnable gate fixed

in the passage-way, and locking means therefor, a traveling tape located at one side of the gate opening, a spring-pressed latching rod extending from the recorder-box to lock the gate, a fulcrumed lever, one arm of which engages the latching rod, a chute into which the other arm of the lever projects, said chute being adapted to receive the ticket or check, and directing said check so that its printing surface is brought into contact with the tape 60 to leave a permanent mark thereon.

3. In an apparatus of the character described, a vertical post having sockets in its sides, arms projecting radially in the plane of said sockets, slidable bars carried thereby, and springs by which said bars are pressed so as to enter the sockets when they register, a ticket-receiving chute near the outer ends of the arms, a bell-crank lever having one end engaging the slidable bar, a pin carried 70 by the other arm of the lever against which the ticket acts when introduced to the chute to withdraw the bar and allow the device to be turned, and means for removing the ticket and releasing the bar.

4. In an apparatus of the character described, arms turnable in a horizontal plane about a supporting post and having springpressed slidable bars carried thereby, corresponding sockets in the post, ticket-re- 80 ceiving chutes at the outer ends of the arms, a bell-crank lever engaging the slidable bars, means by which said lever is actuated by the introduction of the ticket to disengage the latch and allow the arms to be turned, print- 85 ing characters carried upon the ticket the receiving surface for which said characters pass during the forward movement of the ticket at the end of a quarter revolution of the apparatus, a stop pin upon said receiver 90 by which the ticket is disengaged to fall into said receiver.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

CONRAD METZLER.

Witnesses

E. E. Curtis,

Ernest I. Wette.