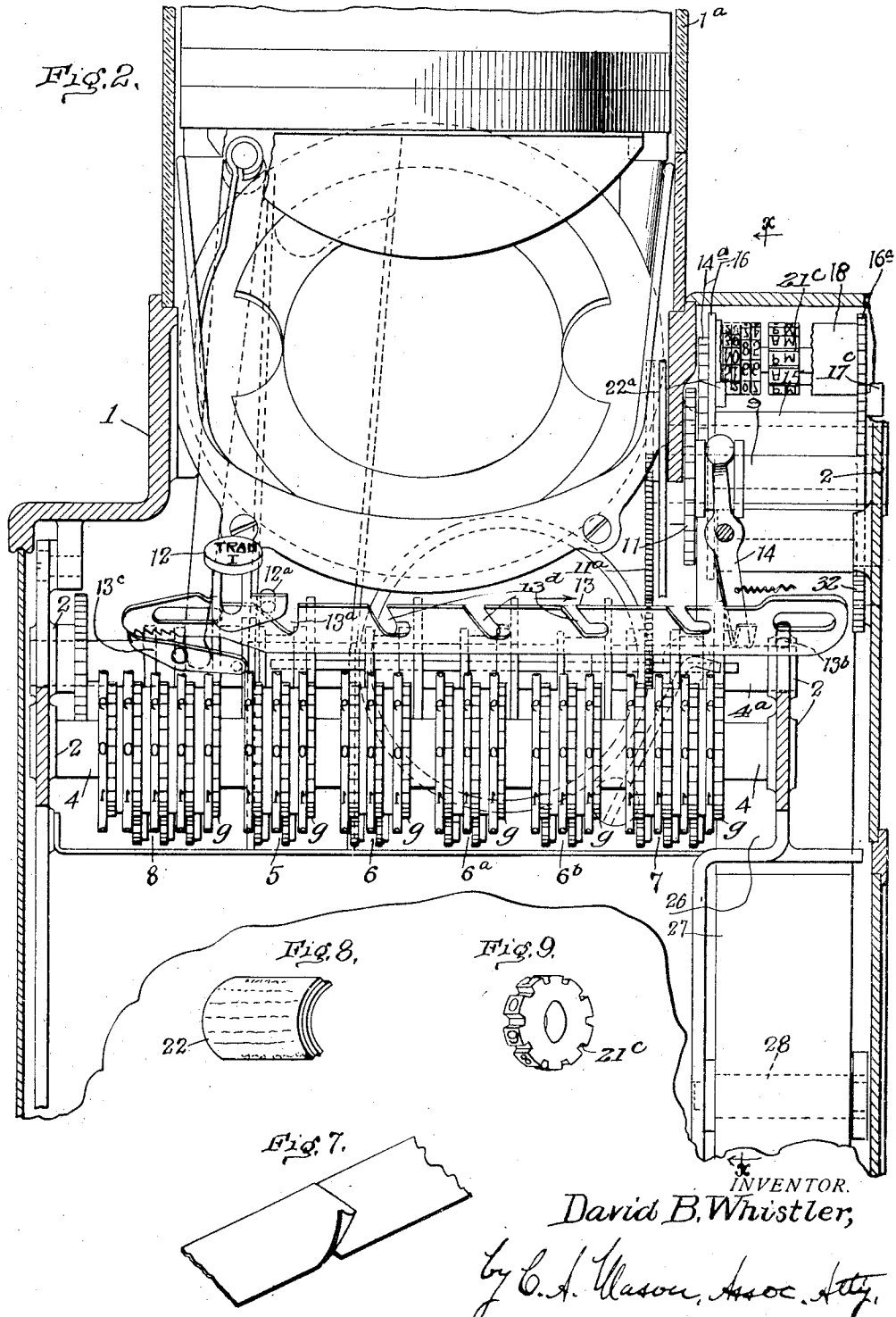


D. B. WHISTLER.
 COMBINATION FARE BOX AND TRANSFER MACHINE.
 APPLICATION FILED AUG. 23, 1915.

1,355,873.

Patented Oct. 19, 1920.

4 SHEETS—SHEET 2.



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4 SHEETS—SHEET 3.

WHITE LINE
 DIV.
 DAYTON ELECT. RY. CO.
 DAYTON, O.
 D335099
 OCT. 10-1914
 5-30 P.M. N
 C-532
 NOTICE

Fig. 6.

Fig. 3.

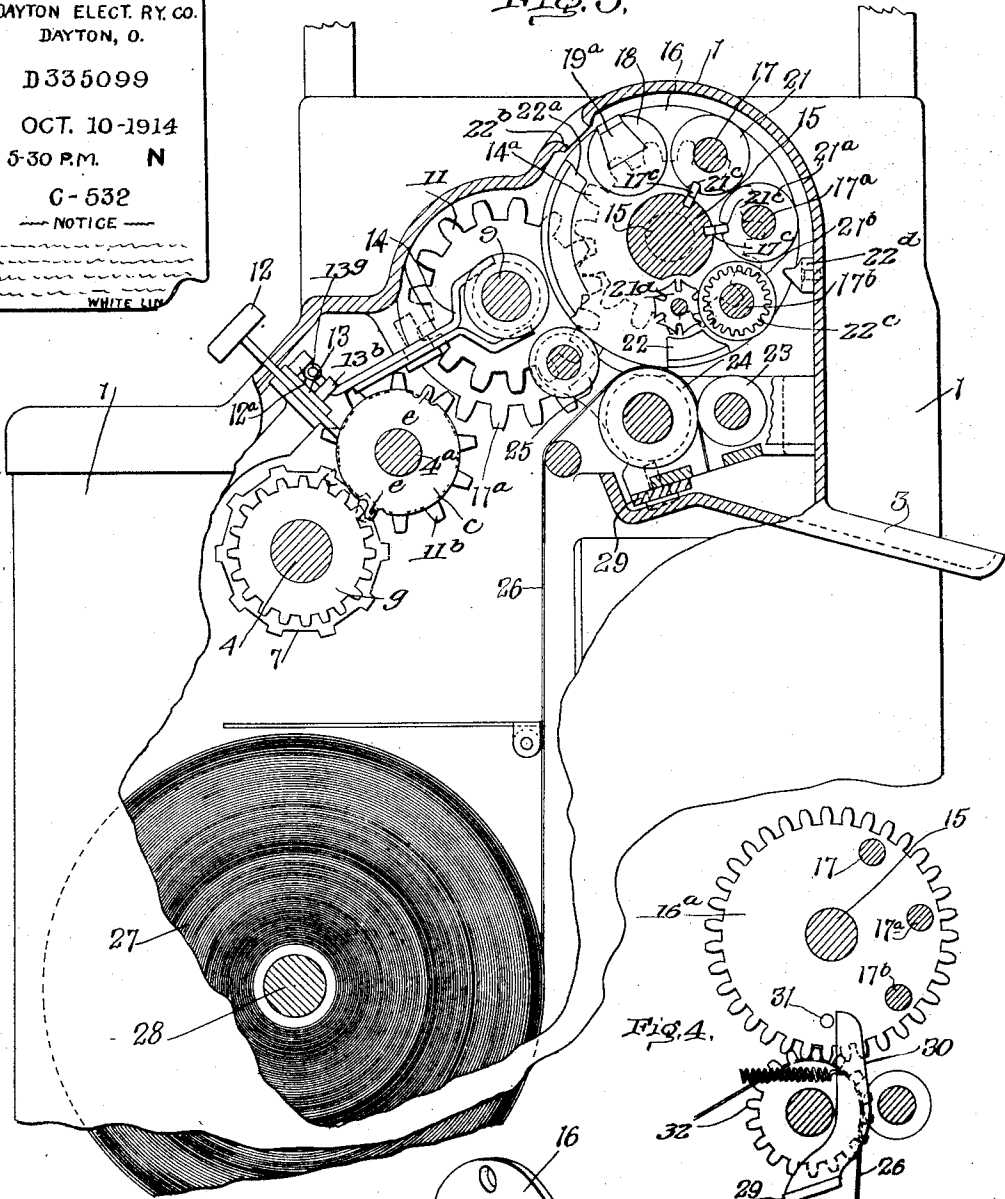


Fig. 4.

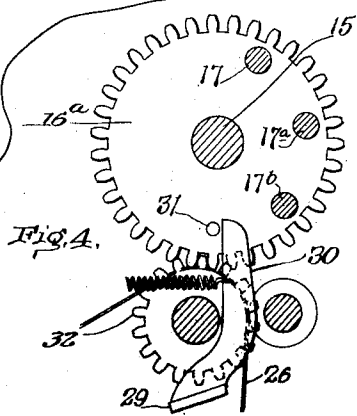
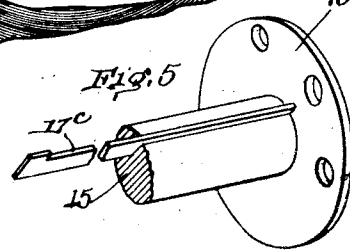


Fig. 5.



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4 SHEETS—SHEET 4.

Fig. 12.

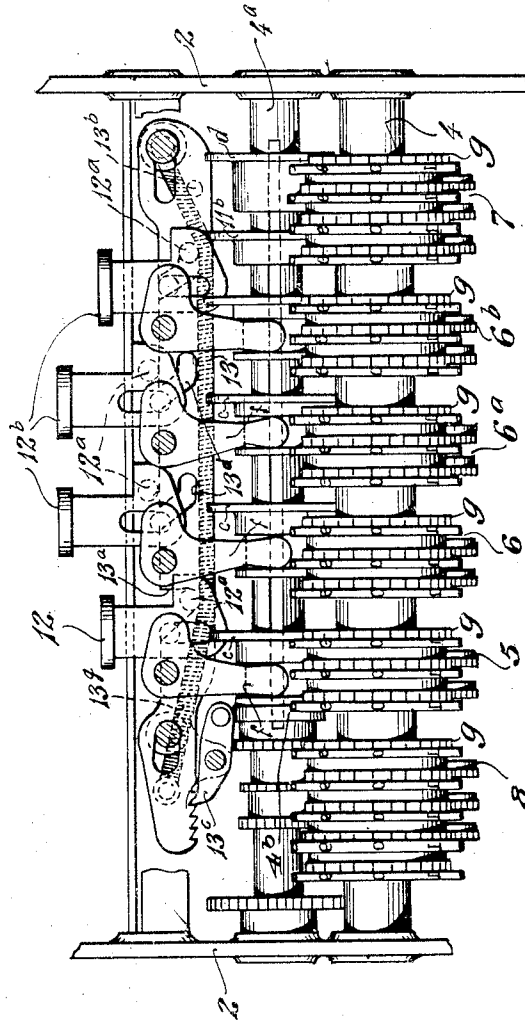


Fig. 13.

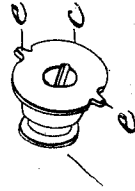
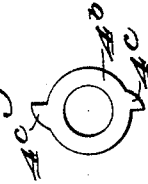


Fig. 14.



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UNITED STATES PATENT OFFICE.

DAVID B. WHISTLER, OF DAYTON, OHIO, ASSIGNOR TO THE AMERICAN RAILWAYS EQUIPMENT COMPANY, OF DAYTON, OHIO, A CORPORATION OF OHIO.

COMBINATION FARE-BOX AND TRANSFER-MACHINE.

1,355,873.

Specification of Letters Patent.

Patented Oct. 19, 1920.

Application filed August 23, 1915. Serial No. 46,811.

To all whom it may concern:

Be it known that I, DAVID B. WHISTLER, a citizen of the United States, residing at Dayton, in the county of Montgomery and State of Ohio, have invented certain new and useful Improvements in Combination Fare - Boxes and Transfer - Machines, of which the following is a specification, reference being had therein to the accompanying drawing.

This invention is a further development of registering devices of the general character illustrated and described in Letters Patent No. 1,291,317, granted to me January 14, 1914, for improvements in combination fare box recorders.

One of the difficult problems of street railway operation is the method of handling transfers. The system now in vogue of supplying conductors with pads of transfers consecutively numbered, and requiring certain punchings or markings to indicate the limitations of their use, such as the date, time of issue, direction of travel, etc., is far from satisfactory, and there is a great demand for a method of handling transfers which is less expensive, faster in operation, and which at the same time affords a positive mechanical check on the transfers issued and received.

The purpose of my invention, therefore, is to provide a combination fare-box register and transfer-issuing machine operated as a unitary device, so organized and constructed that transfers can be issued rapidly thereon, with the possibilities for errors in marking the limitations of their use reduced to the minimum, and affording a positive check on the number of transfers issued and received and which effectively safeguards against irregularities and abuse of privileges in the use of same.

In practice all revenue fares are paid directly into the examination box of the fare box, where the same may be examined by the conductor before registration thereof is made. When a transfer is desired by the passenger, the conductor will first examine the fare paid into the box and if it is a fare upon which a transfer may be issued, he will then connect the transfer issuing mech-

anism, by the operation of a suitable device, with the fare register mechanism whereby registration of the fare and issuing of the transfer in respect thereof, and also registration of the transfer will take place in a single operation of the fare recorder.

It is also an object of the invention to provide a simple, strong and durable device not likely to get out of order, and adapted in all respects to perform its functions with facility and exactness.

The novel features of the invention consist in the matters hereinafter described and more fully pointed out and defined in the appended claims.

In the drawings: Figure 1 is a perspective view of a fare box of the type described in my previous invention, above referred to, with the transfer register and issuing device forming an integral part thereof; Fig. 2 is a front elevation of the register and transfer issuing mechanism with the outer casing removed; Fig. 3 is a section taken on the line X—X looking in the direction of the arrows, of the mechanism shown in Fig. 2 with the outer casing broken away, and showing the location of the paper roll and the manner of supplying the paper strip to the mechanism for issuing the transfers; Fig. 4 is a detail of the mechanism for cutting-off the transfer after same has been delivered from the issuing mechanism; Fig. 5 is a detail in perspective of one of the shafts, with key assembled, which support the number wheels for printing the data on the transfers; Fig. 6 illustrates the general form of the transfers as they are printed and issued by the device; Fig. 7 shows the manner of joining the ends of the paper strips when a new roll of paper is supplied in the machine; Fig. 8 is a detail of the electrotypes for printing general information on the transfer; Fig. 9 is a detail in perspective of one of the number wheels of the transfer printing mechanism; Fig. 10 is a detail in perspective of the key for printing on the transfer the badge number of the conductor in charge of the register; Fig. 11 is a detail in perspective of the shaft for receiving and holding the conductor's key, and Fig. 12 is a front elevation of the counter

mechanism showing detail assembly of the counters including the selector and operating mechanisms for the same, two of the selector keys being depressed to show the manner of entraining the mechanism to register a fare and to register and issue a transfer in respect thereof by a single operation of the fare box. Fig. 13 is a detail, perspective view of one of the counter actuators: and Fig. 14 is a detail view of the tripping collar which releases the key bar after each operation of the registering mechanism.

In carrying out my invention I utilize in combination with a fare register, preferably in a fare box, a mechanism for issuing transfers, or for issuing transfers and registering the same as they are issued. The transfer issuing and registering mechanisms are normally disconnected from the actuating device for the fare register, but are adapted to be connected therewith at the will of the operator, thus enabling the fare register, the transfer issuing mechanism and the transfer registering mechanism all to be operated by a single operation of the actuating device. The mechanism for accomplishing these results may take various forms, but that form shown herein is for the purpose of illustration only. I believe myself to be the first to provide a mechanism adapted to register fares, issue and register transfers at a single operation, and further I believe that I am the first to combine these instrumentalities in a unitary machine. Such other instrumentalities as may be desirable may be provided and used in connection with those above mentioned and in the present illustrative embodiment of the invention the fare registering devices are adapted to make a classified record of the fares received.

In the accompanying drawings I have illustrated one embodiment of the invention and have shown the same as embodied in a fare box comprising a casing 1 which may be of any suitable character and shape, and which is adapted to contain and support the fare registering mechanism, the transfer issuing mechanism and the transfer registering mechanism. Supported above the casing 1 is an examination box or receptacle 1^a, which may be of any suitable construction, in which the fares are deposited by the passengers and in which they may be examined by the conductor. The inner wall of the casing being provided with bearings 2 to receive the various shafts of the several mechanisms. The casing is provided with an extension 3 forming a tray on which the transfers are delivered by the issuing mechanism, and from which they may be removed by the passenger. A shaft 4 is mounted within the casing and supports a series of counters, one of which, indicated by the reference numeral 5, is adapted to register the number of transfers issued. The

shaft 4 also carries the counters 6, 6^a, and 6^b for registering different classes of fares, the total register 7 and the cash register 8 to register the total amount of money received, and registered, in the fare box. The counter 5 and each of the counters 6, 6^a and 6^b are provided with actuators *c* which are slidably mounted on and rotatable with an actuator 4^a, and are held normally out of operative relation with the respective counters. The actuators *c* are controlled by selector keys 12 and 12^b, by means of which they may be moved into operative relation with their respective counters. The total counter 7 is provided with an actuator *d* which is secured to the shaft 4^a and is always in operative relation with its counter. The actuators *c* and *d* are both provided with teeth *e—e* and the units wheels of counters 5, 6, 6^a, 6^b and 7 are each provided with a gear *g*, with which the respective counters *c* and *d* are adapted to engage when they are in operative relation thereto and the shaft 4^a is rotated. The rotation of the shaft 4^a is accomplished by the main drive shaft 9, which is provided with a handle 10, and on which is mounted a gear 11^a meshing with a gear 11^b on the shaft 4^a, the relation of the gear 11^a to the gear 11^b being such that the shaft 4^a and the actuators *c* and *d* thereon will be moved through one-half a rotation upon each full rotation of the shaft 9. Thus it will be observed that when one of the keys 12^b and the key 12 have been operated, to move the corresponding actuators *c* into alinement with the gears *g* of the respective counters, the operation of the machine through the handle 10 will cause one unit to be registered upon the counter 5 and upon that counter which has been selected by the key 12^b, and also on the total counter 7, thereby registering the fare that has been received upon both the detail and total counters and registering the transfer which has been issued. The counter 8 is a total cash counter such as may be found in various registering fare boxes and forms no part of the present invention.

Operative connections may be established between the keys 12 and 12^b and their respective counters in any suitable manner, but I have here illustrated a mechanism similar to that shown and described in the above mentioned application. Briefly this mechanism is as follows: Mounted adjacent to each key 12 and 12^b is a bell crank 11^f, one arm of which has a pin and slot connection with the adjacent key and the other arm of which is operatively connected with the corresponding actuator *c*. Extending lengthwise of the shaft 4^a adjacent to the several keys is a key bar 13 which when one key has been operated serves to lock the remaining keys in their raised positions. To this end each key is provided with a pin

12^a and the key bar has inclined notches 13^a and 13^b which, when the parts are in their normal positions, are arranged in alinement with the pins 12^a. When one of the keys 5 is depressed the pin 12^a carried thereby will enter the corresponding inclined slot in the key bar and move the key bar longitudinally, as shown in Fig. 12, to move the slots therein out of alinement with the remaining pins 10 12^a and thus prevent the keys by which those pins are carried from being operated until the key bar has been restored to its normal position, which can be accomplished only by the operation of the machine through the 15 handle 10. When the key bar has moved to the position shown in Fig. 12 the notched end thereof is engaged by a pawl 13^c which holds the key bar in its locked position until the operation of the registering mechanism 20 is completed. At the completion of this operation one of the projections 4^c on a collar 4^b carried by the shaft 4^a engages with a pin 13^b on the pawl 13^c and moves this pawl out of engagement with the key 25 bar, thereby releasing the same and permitting it to be returned to its normal position by a spring 13^e. This movement of the key bar to its normal position also serves to restore the key or keys, which have been depressed, to their normal positions. It will be noted that the notch 13^a in the key bar, which is arranged adjacent to the key 12, has a wide opening, as shown in Fig. 12, to permit the operation of the key 12 after one 30 of the keys 12^b has been depressed, and further the notches 13^a have horizontal elongations to permit of the further movement of the key bar by the key 12, which serves to establish a connection between the operating shaft 9 and the transfer issuing mechanism. 40 In the present instance this connection is established by means of a lever 14 pivotally mounted between its ends and having one end arranged to be engaged by a pin 13^b carried by the key bar when the additional 45 movement has been imparted to the key bar by the key 12, and having its other end operatively connected with a gear 11, which is slidably mounted on the shaft 9, to move the same into and out of mesh with the gear 50 14^a which is connected with the transfer issuing mechanism as will be hereinafter described. The pin 13^b is mounted on the key bar at such a distance from the free end of the lever 14, when the parts are in 55 their normal positions, that the movement of the key bar by anyone of the keys 12^b will not be sufficient to cause the pin to engage and operate the lever and thus render the transfer issuing mechanism operative. 60 Thus it will be observed that when the key 12 is in its normal raised position anyone of the keys may be operated and a fare registered by actuating the crank 10 without 65 causing the operation of the transfer issuing

mechanism or the transfer counter. It is only when the key 12 is operated that the required movement is given to the actuator *c* of the counter 5 and to the key bar to render the transfer counter and the transfer 70 issuing mechanism operative. When a fare is paid and a transfer required one of the keys 12^b is first operated to connect the fare registering counter, 6, 6^a or 6^b, upon which the registration is to be made, with its actu- 75 ating device, the transfer key 12 is then operated to engage the transfer counter with its actuating device and to connect the transfer issuing mechanism with the operating mechanism for the machine. The mecha- 80 nism will then be in order to simultaneously register the fare, issue the transfer, and register the transfer, and to register one unit upon the total fare register, by a single operation of the operating device. At the 85 completion of the operation of the selector keys, the counter actuators used in the operation of the registers, and the gear for the transfer mechanism are restored automatically to their normally inoperative positions 90

The transfer issuing mechanism, in the form here shown, comprises a shaft 15 on which is mounted the gear 14^a adapted to be operated from the main shaft 9 by means of the gear 11 which, as already described, is 95 slidably mounted on the shaft and is controlled in its lateral movements by the key 12, the key bar and the lever 14. The shaft 15 has secured to that end thereof adjacent to the gear 14^a a plate 16 and at its opposite 100 end a gear 16^a, the plate and the gear being spaced apart to receive and support a plurality of marking devices to successively print upon the transfer forming material the data for the transfer. These marking 105 devices may be of any suitable character and are preferably arranged in a circle, so that the device as a whole constitutes in effect a cylinder, and the several devices will be brought successively into printing position 110 by rotation of the cylinder. As here shown there is mounted between the gear and the plate a shaft 18 having a longitudinal slot 19 to receive and support in printing position a printing plate 19^a carrying the con- 115 ductor's badge number, a spring 20 being arranged within the slot to retain the printing plate, or key, in position therein. Also mounted between the plate and the gear are shafts 17. 17^a and 17^b which have rotatably 120 supported thereon in printing alinement three sets of printing wheels 21, 21^a and 21^b to print upon each transfer the following data: the time limit of the transfer, the direction of travel in which the same is valid 125 for use, the date of issue and the series and consecutive number of the transfer. The printing wheels may be of any suitable construction as their detail construction does not enter into the present invention. The 130

mechanism assembled between the plate 16 and the plate 16^a, with the addition of the electrotypes 22 and 22^a, forms a rotatable cylinder containing on its periphery the characters for printing the desired data on the transfers. Mounted adjacent to the periphery of this cylinder are feed rolls 23 and 24, and an inking roller 25 which are carried by suitable shafts mounted within the casing. The material from which the transfers are to be formed preferably consists of a strip of paper 26 which is supplied from a roll 27 carried by a shaft 28 having bearings on the lower part of the fare box casing. This strip of paper is carried upward about the feed rolls 23 and 24 which serves to advance it a suitable distance upon each operation of the mechanism. The larger feed roll 24 constitutes a printing roller or platen, which coöperates with the printing cylinder to print the transfer. The printed portion of the strip of paper, which constitutes the transfer, is cut from the web or main strip by means of a cutter blade 29 mounted in the casing 1 just below the feed rolls. As here shown the blade 29 has an arm 30 extending upwardly and arranged to be engaged by a pin 31 carried by the gear 16^a which meshes with and rotates the gear 32 for the paper feeding rolls. Thus the cutter blade is actuated at the end of the printing operation and after the necessary length of paper has been fed past the same.

The operation of the mechanism will be readily understood from the foregoing description of the several parts thereof and it will be apparent that the transfer issuing and registering mechanism are normally out of operative relation with the fare box and the fare registering mechanism, and that fares may be registered at will through the operation of the latter mechanism without actuating the transfer mechanism, but when a transfer is required the operation of the transfer issuing key will serve to connect the transfer counter and the transfer issuing mechanism with the single operating device for the machine, thus entraining all the mechanisms and constituting the several mechanisms a unitary machine. When a transfer is required the machine is set to register the fare received and in respect of which a transfer is to be issued. Then the transfer key 12 is depressed and the operating handle actuated to cause the operation of the mechanism as a whole. This operation results in the registration of the fare received, the issue of a proper transfer and the registration of that transfer, and also a registration of the fare on the total fare register, or passenger counter. At the completion of the operation all the mechanisms are properly restored to their normal positions. It will be seen that the only additional operation necessary to the issue

and registration of the transfer is the depression of the transfer key. This can be accomplished quickly and easily by the conductor without interfering in any way with his duties. In fact the operation is much simpler than the ordinary operation of punching the transfer and issuing the same by hand.

While I have shown and described one embodiment of my invention is to be understood that this has been chosen for the purposes of illustration only, and I do not desire to be limited to the details of construction, as shown and described, for obvious modifications will occur to a person skilled in the art.

I claim—

1. In a machine of the character described, the combination with an examination box, registering mechanism to register fares as they are received in said box, and an actuating device for said registering mechanism, of mechanism to issue transfers in respect of said fares, a counter to register the transfers so issued, said transfer issuing mechanism and said transfer counter being normally disconnected from said actuating device, and means to connect said transfer issuing mechanism and said transfer counter with said actuating device, whereby the operation of said actuating device will serve to register the fare received, issue a transfer and register the transfer so issued.

2. In a machine of the character described, the combination with an examination box, registering mechanism to register fares as they are received in said box, and an actuating device for said registering mechanism, of mechanism to issue transfers in respect of said fares, a counter to register the transfers so issued, said transfer issuing mechanism and said transfer counter being normally disconnected from said actuating device, and means to connect said transfer issuing mechanism and said transfer counter with said actuating device, whereby a single operation of said actuating device will serve to register the fare received, issue a transfer and register the transfer so issued.

3. In a machine of the character described, the combination with an examination box, registering mechanism to register fares as they are received in said box, and an actuating device for said registering mechanism, of mechanism to issue transfers in respect of said fares, a counter to register the transfers so issued, said transfer issuing mechanism and said transfer counter being normally disconnected from said actuating device, means to connect said transfer issuing mechanism and said transfer counter with said actuating device, whereby the operation of said actuating device will

serve to register the fare received, issue a transfer and register the transfer so issued, and means to automatically disconnect said transfer issuing mechanism and said transfer counter from said actuating device upon the completion of said operation.

4. In a registering fare box, the combination with an examination box, registering mechanism to register fares as they are received in said box, and an actuating device for said registering mechanism, of mechanism to issue in respect of said fares other fares of a limited character having thereon data defining the limits of their use, said fare issuing mechanism being normally disconnected from said actuating device, and means under the control of the operator to connect said fare issuing mechanism with said actuating device to cause a limited fare to be issued when said registering mechanism is operated.

5. In a registering fare box, the combination with an examination box, registering mechanism to register fares as they are received in the said box, and an actuating device for said registering mechanism, of mechanism to issue in respect of said fares other fares of a limited character having thereon data defining the limits of their use, said fare issuing mechanism being normally disconnected from said actuating device, means under the control of the operator to connect said fare issuing mechanism with said actuating device to cause a limited fare to be issued when said registering mechanism is operated, and means to automatically disconnect said fare issuing mechanism from said actuating device after a fare has been issued.

6. In a registering fare box, the combination with an examination box, registering mechanism to register fares as they are received in the said box, and an actuating device for said mechanism, of mechanism to issue in respect of said fares other fares of a limited character having thereon data to define the limits of their use, said fare issuing mechanism being normally disconnected from said actuating device, means to connect said fare issuing mechanism with said actuating device, said means comprising a push key, whereby the operation of said push key and the actuating device will cause the fare received to be registered and a limited fare to be issued.

7. In a registering fare box, a receptacle to receive fares and display the same for examination, registering mechanism to register the fares deposited in said receptacle, mechanism to issue in respect of said fares other fares of a limited character having thereon data to define the limits of their use, means to actuate said registering mechanism independently of said fare issuing mechanism, or to actuate said fare is-

uing mechanism simultaneously with the operation of said fare registering mechanism.

8. In a registering fare box, a receptacle to receive fares and display the same for examination, registering mechanism to register fares as they are deposited in said receptacle, an actuating device for said registering mechanism, mechanism to issue transfers in respect of fares deposited in said receptacle, said transfer mechanism being normally disconnected from said actuating device, and means under the control of the operator to connect said transfer issuing mechanism with said actuating device, whereby the operation of said actuating device will serve to register the fare received and to cause a transfer to be issued.

9. In a registering fare box, a receptacle to receive fares and display the same for examination, registering mechanism to register fares received in said receptacle, an actuating device for said registering mechanism, mechanism to issue transfers in respect of fares received by said receptacle, a counter to register transfers so issued, said transfer issuing mechanism and said transfer counter being normally disconnected from said actuating device, and means to connect said transfer issuing mechanism and said transfer counter with said actuating device, whereby the operation of said actuating device will serve to register the fare received, issue a transfer and register the transfer so issued.

10. In a registering fare box, a receptacle to receive fares and display the same for examination, registering mechanism to register fares received in said receptacle, an actuating device for said registering mechanism, mechanism to issue transfers in respect of fares received by said receptacle, a counter to register transfers so issued, said transfer issuing mechanism and said transfer counter being normally disconnected from said actuating device, and means to connect said transfer issuing mechanism and said transfer counter with said actuating device, whereby the operation of said actuating device will serve to register the fare received, issue a transfer and register the transfer so issued, and means to automatically disconnect said transfer issuing mechanism and said transfer counter from said actuating device after each operation thereof.

11. In a registering fare box, a receptacle to receive fares and display the same for examination, registering mechanism to register fares as they are deposited in said receptacle, an actuating device for said registering mechanism, mechanism to issue transfers in respect of fares deposited in said receptacle, said transfer issuing mecha-

nism being normally disconnected from said actuating device, means under the control of the operator to connect said transfer issuing mechanism with said actuating device, whereby the operation of said actuating device will serve to register the fare received and to cause the transfer to be issued, and means to automatically disconnect said transfer issuing mechanism from said actuating device after each operation thereof.

12. In a machine of the character described, the combination with a receptacle to receive fares and display the same for examination, a plurality of registering devices to register fares selectively as they are received, an actuating device, and means to connect said actuating device with a selected fare register, of mechanism to issue transfers in respect of said fares, said transfer mechanism being normally disconnected from said actuating device, and means to connect said transfer issuing mechanism with said actuating device, whereby the selected registering device will be operated and a transfer will be issued.

13. In a machine of the character described, the combination with a receptacle to receive fares and display the same for examination, a plurality of registering devices to register fares selectively as they are received, an actuating device, and means to connect said actuating device with a selected fare register, of mechanism to issue transfers in respect of said fares, a counter which registers the transfers so issued, said transfer issuing mechanism and said transfer counter being normally disconnected from said actuating device, and means to operatively connect said transfer issuing mechanism and said transfer counter with said actuating device, whereby the operation of said actuating device will cause a classified registration of the fare received and will cause a transfer to be issued and registered.

14. In a machine of the character described, the combination with a receptacle to receive fares and display the same for examination, a plurality of registering devices to register fares selectively as they are received, an actuating device, and means to connect said actuating device with a selected fare register, of mechanism to issue transfers in respect of said fares, a counter which registers the transfers so issued, said transfer issuing mechanism and said transfer counter being normally disconnected from said actuating device, and means to operatively connect said transfer issuing mechanism and said transfer counter with said actuating device, whereby the operation of said actuating device will cause a classified registration of the fare received and will cause a transfer to be issued and register, and means to automatically disconnect said selected fare register, said trans-

fer issuing mechanism and said transfer counter from said actuating device at the end of each operation.

15. In a machine of the character described, the combination with a receptacle to receive fares and display the same for examination, a plurality of registering devices to register fares selectively as they are received, an actuating device, and means to connect said actuating device with a selected fare register, of mechanism to issue transfers in respect of said fares, said transfer mechanism being normally disconnected from said actuating device, and means to connect said transfer issuing mechanism with said actuating device, whereby the selected registering device will be operated and a transfer will be issued, and means to automatically disconnect said selected fare register and said transfer issuing mechanism from said actuating device.

16. In a machine of the character described, a receptacle to receive fares and display the same for examination, a plurality of counters to register fares selectively, mechanism to issue transfers in respect of said fares, a counter to register the transfers so issued, an actuating device, selector mechanism to cause any one of said fare counters to be operatively connected with said actuating device, and other means to cause said transfer issuing mechanism and said transfer counter to be connected with said actuating device.

17. In a machine of the character described; a plurality of counters to register fares selectively, and mechanism to issue transfers in respect of said fares, common means to operate said counters and the transfer issuing mechanism comprising a shaft and a plurality of actuators movable longitudinally of said shaft and rotatable therewith and means to move any one of said actuators into operative relation with one of said counters and to prevent longitudinal movement of the other actuators, whereby a selected counter will be actuated to register a fare and the transfer issuing mechanism will be actuated to issue a transfer in respect thereof, when said operating means are actuated.

18. In a machine of the character described an examination box, a plurality of registers to register fares selectively as they are received in said box, mechanism to issue transfers in respect of said fares, counters to register the transfers so issued, an operating device, a plurality of keys to operatively connect a selected one of said fare registers with said actuating device, a device adapted to be actuated by the operation of any one of said keys to lock the other keys against movement, a key to operatively connect the transfer counter with said ac-

tuating device and to impart a further movement to said locking device, and means actuated by said further movement of said locking device to establish an operative connection between said transfer issuing mechanism and said actuating device.

19. In a machine of the character described; a counter to register fares, and a counter to register transfers issued in respect of said fares, mechanism to issue said transfers, and common means to operate said counters and the transfer issuing mechanism, comprising a shaft and a plurality of actuators movable longitudinally thereof and rotatable therewith, means to move one of said actuators into operative relation with the first-named counter and means to move another of said actuators into operative relation with the last-named counter and to render the transfer issuing mechanism operative, whereby the first-named counter will be actuated to register a fare, and said mechanism and the last-named counter will be actuated respectively to issue and register a transfer in respect of said fare, when said operating means are actuated.

20. In a machine of the character described; a plurality of counters to register fares selectively, and a counter to issue transfers in respect of said fares, mechanism to issue said transfers, and common means to operate said counters and the transfer issuing mechanism comprising a shaft and a plurality of actuators movable longitudinally thereof and rotatable therewith, means to move one of said actuators into operative relation with one of the first-named counters, and separate means to move another actuator into operative relation with the last-named counter and to render the transfer issuing mechanism operative, whereby a selected counter will be actuated to register a fare and the transfer issuing mechanism and the last named counter will be actuated respectively to issue and register a transfer in respect of said fare, when said operating means are actuated.

21. In a machine of the character described; a counter to register fares, a counter to register transfers issued in respect of said fares, and mechanism to issue said transfers, common means to operate said counters and the transfer issuing mechanism comprising a shaft and normally disentrained gears, a plurality of actuators movable longitudinally of said shaft and rotatable therewith, means to move one of said actuators into operative relation with the first-named counter, and separate means to move another of the actuators into operative relation with the last-named counter and to entrain said gears to render the transfer issuing mechanism operative, whereby the first-named counter will be ac-

tuated to register a fare, and the transfer issuing mechanism and the last-named counter will be actuated respectively to issue and register a transfer in respect of said fare when said operating means are actuated, and means to restore said actuators and said gears to normal position at the end of said operation.

22. In a registering fare box, the combination with an examination box, registering mechanism to register fares as received in the said box, and an actuating device therefor, of mechanism to issue in respect of said fares other fares of a limited character having thereon data to define the limits of their use, said fare issuing mechanism comprising a cylinder having a plurality of printing instrumentalities, each of which is adapted to print on the fare upon each operation of said cylinder, a platen arranged to cooperate with said cylinder, means to cause a web of paper to be fed between said platen and said cylinder, a normally inoperative connection between said cylinder and said actuating device, and means under the control of the operator to render said connection operative.

23. In a registering fare box, the combination with an examination box, registering mechanism to register fares as they are received in the said box, and an actuating device for said registering mechanism, of transfer registering mechanism normally disconnected from said actuating device, manually operated means to connect said transfer registering mechanism with said actuating device to cause the transfer to be registered as such simultaneously with its registration as a fare, and means to automatically disconnect said transfer registering mechanism from said actuating device at the end of the registering operation.

24. In a machine of the character described, the combination with an examination box adapted to receive fares from the passengers, registering mechanism whereby fares paid into said box may be registered, and transfer issuing mechanism cooperating with said registering mechanism, whereby a fare may be registered and a transfer issued in respect thereof by a single operation of said machine.

25. In a machine of the character described, the combination with an examination box, adapted to receive fares direct from the passengers and to display said fares for visual examination, mechanism to deliver said fares within said machine, and transfer issuing mechanism cooperating with said display mechanism whereby each fare may be displayed in the examination box and a transfer issued in respect thereof simultaneously.

26. In a machine of the character de-

scribed, the combination with an examination box adapted to receive fares direct from the passengers and to display said fares for visual examination, mechanism to
5 deliver said fares within said machine, transfer issuing mechanism cooperating with said display means, whereby said dis-

play mechanism may be actuated to deliver a fare within said machine and a transfer issued in respect of a fare by a
10 single operation of said machine.

In testimony whereof, I affix my signature.

DAVID B. WHISTLER.