(No Model.)

S. I. BUTTERS.

MILEAGE TICKET CASE AND REGISTER.

No. 534,630. Patented Feb. 26, 1895.

Fig. 1.

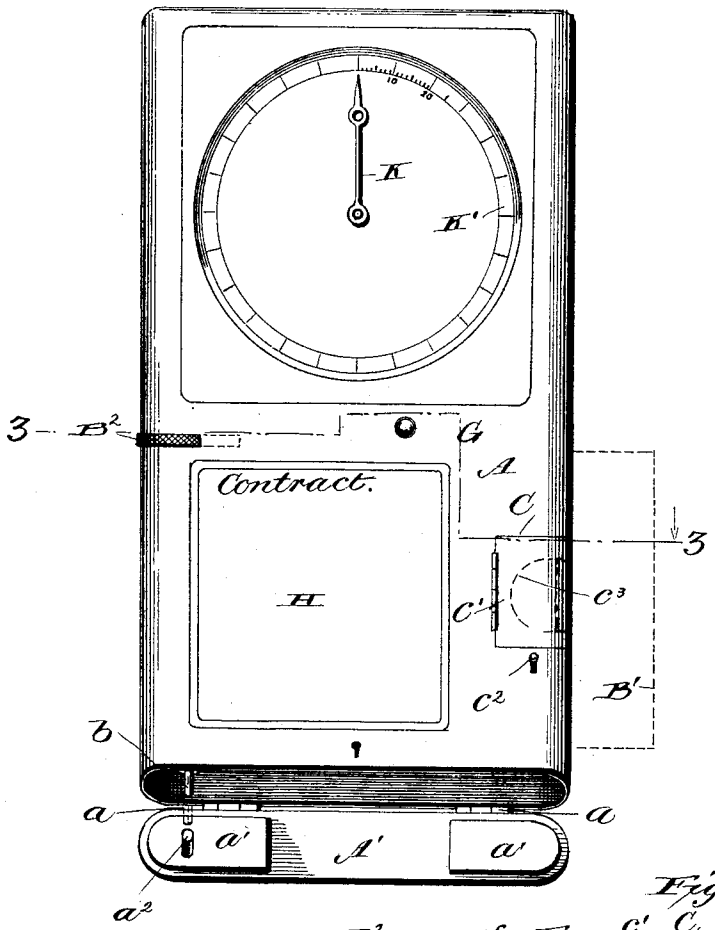


Fig. 2.

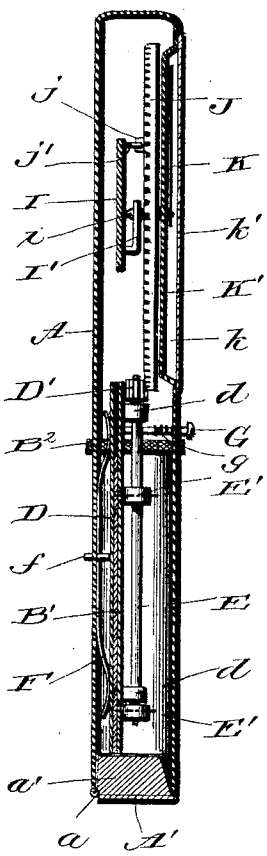
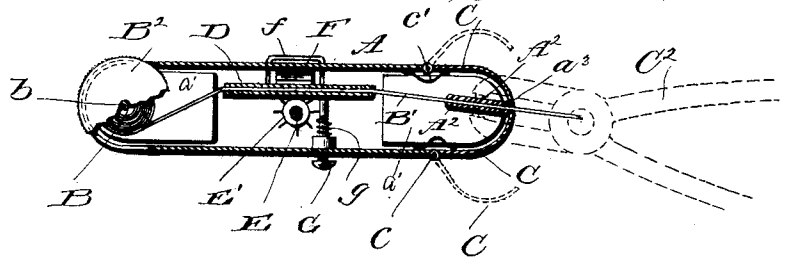


Fig. 3.



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THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

SAMUEL I. BUTTERS, OF CLARKSBURG, WEST VIRGINIA.

MILEAGE-TICKET CASE AND REGISTER.

SPECIFICATION forming part of Letters Patent No. 534,630, dated February 26, 1895.

Application filed January 23, 1894. Serial No. 497,790. (No model.)

To all whom it may concern:

Be it known that I, SAMUEL I. BUTTERS, a citizen of the United States, residing at Clarksburg, in the county of Harrison, State of West Virginia, have invented certain new and useful Improvements in Mileage-Ticket Cases and Registers, of which the following is a specification, reference being had therein to the accompanying drawings.

This invention relates to certain new and useful improvements in ticket cases of that class designed for holding mileage tickets, and it has for its objects among others to provide a simple and cheap ticket case having a register mechanism actuated by the movement of the ticket from the case, the case being provided preferably with hinged portions upon opposite sides of the slit through which the ticket passes to permit of the punching of the ticket when necessary, as for baggage, or at the gate, without withdrawing the ticket from the case as well as to allow the conductor to get hold of the ticket to withdraw the same should its end be within the case. The register-actuating mechanism is carried by a bodily-movable guide and means are provided for throwing this mechanism out of gear when it is desired to move the ticket in or out without registering. The case is provided with a movable end piece which carries guides for the edge of the ticket. The ticket is positively connected with the registering mechanism so that the latter must of necessity be actuated by the movement of the ticket when the registering devices are in gear.

Other objects and advantages of the invention will hereinafter appear and the novel features thereof will be specifically defined by the appended claims.

The invention is clearly illustrated in the accompanying drawings, which, with the letters of reference marked thereon, form a part of this specification, and in which—

Figure 1 is a front elevation of my improved ticket case and register with the end thrown open. Fig. 2 is a substantially central longitudinal section through the same with parts in elevation. Fig. 3 is a cross section through the same on the line 3—3 of Fig. 1 looking in the direction of the arrow with a portion broken away.

Like letters of reference indicate like parts throughout the several views.

Referring now to the details of the drawings by letter, A designates a box or case of any desired material and of any preferred shape but by preference of substantially the shape shown and having preferably rounded edges to better adapt it for carrying in the pocket. This case is closed at one end while at the other end is a movable cover A′ preferably hinged by suitable hinges a and carrying the blocks or projections a' upon its inner face as seen in Figs. 1 and 2 which serve as guides for the edge of the ticket as seen in Fig. 2.

B is a roller the pintles or shafts b of which are suitably supported in bearings one of which is within the case while the other is in one of the blocks or projections a' of the cover as seen in Fig. 1. I may sometimes extend the outer end of the shaft through the cover so that it may be turned when desired and in this case the end of the shaft is squared as seen in dotted lines in Fig. 1 and the block a' is formed with an elongated hole a^2 as seen also in Fig. 1 to allow the shaft to assume its proper position as the cover is closed and to permit of the opening of the cover when desired. Upon this roller is designed to be wound the ticket B′ which may be of any approved style. The roller B may be rotated in either direction by means of the wheel B^2 thereon provided with a milled edge as seen in Figs. 1, 2 and 3 and projecting through a slit in the case.

The edge of the case opposite that at which the roller is journaled is provided with a slit a^3 through which the end of the ticket is designed to pass and the ticket is guided at this edge between the plates A^2 as seen in Fig. 3. At this edge I provide the doors C which are hinged one upon each side on suitable hinges c and provided with springs c' for forcing the same open when the catch is disengaged. The catch for holding the door in its closed position may be of any suitable form. I have shown it as a simple sliding latch c^2 of usual construction.

The guide plates A^2 are cut away opposite the doors as seen in dotted lines c^3 in Fig. 1 to receive the thumb and finger when it is

desired to pull out the ticket or to enable the gateman to punch the ticket without drawing the same from the case as indicated by dotted lines in Fig. 3 in which C^2 designates the punch. I provide two doors, one upon each side as seen in Fig. 3 for this purpose.

Within the case is a movably-mounted guide D for the ticket. On this guide are the bearings *d* for the shaft E on which are fast the spurred wheels E′ the spurs of which work through slots in the inner plate of the guide and are designed to come in direct contact with the ticket so that as the ticket is moved it will cause the said wheels and consequently the shaft to revolve. On the inner end of this shaft is a small pinion D′ as seen in Fig. 2. The guide D is normally held inward by the influence of a spring F bearing thereagainst as seen in Fig. 2 and is guided in its movements by the staple *f* which works through a slot in the case as seen in Figs. 2 and 3. The guide with the shaft and its spurred wheels and pinion is designed to be moved against the action of the spring by a push pin G which projects through the side of the case as shown in all of the views with its inner end bearing against the guide and provided with a spring *g* as seen in Figs. 2 and 3 to normally force the same outward.

The case may be provided upon one side with a space for the attachment of a contract or for any other subject matter. I have shown such at H in Fig. 1. The cover of the case may be provided with any suitable means for locking it in its closed position.

In Figs. 1 and 2 I have shown the case as extended and provided with a strip I from which extends a bracket I′ as seen in Fig. 2 in which is mounted the point or pintle *i* on which turns the gear wheel J which is mounted to mesh with the pinion D′ on the shaft E as shown in said Fig. 2. This gear wheel is provided upon its rear face with a lug *j* which is designed to engage a stop or pin *j′* on the strip I so as to prevent the gear wheel from making more than one complete revolution.

K is a hand or pointer fast on the pintle of the gear wheel and adapted to work over a dial K′ which may be graduated for any given number of miles and which is seated in a depression *k* in the case and covered by a transparent plate *k′* as seen best in Fig. 2.

With the parts constructed and arranged substantially as above set forth the operation is as follows:—The ticket is wound upon the roller and the latter put in position and the cover of the case closed and locked. As the conductor comes along he presses on the catch that opens the doors and placing his thumb and finger over the edge of the ticket pulls out say twenty-five miles thereof. As the ticket is pulled out it is engaged by the spurs of the spurred wheels and the shaft thereby operated, and as the said shaft is revolved its pinion meshing with the gear wheel causes the latter to revolve and the same being geared so that each revolution of the pinion will correspond with a predetermined number of miles of ticket that number will be indicated upon the dial by the hand which moves with the gear wheel. The edges of the slit in the case through which the ticket passes serve as cutting or tearing edges upon which the ticket may be severed. Of course if the edge of the ticket project through the slit in the case it will not be necessary to open the doors to get hold thereof. When it is desired to move the ticket back and wind it upon its roller all that it is necessary to do is to push in on the push pin G which moves the guide with its shaft and pinion bodily so that the pinion is moved out of its engagement with the gear wheel, or it may be turned by the wheel B^2.

Modifications in detail may be resorted to without departing from the spirit of the invention or sacrificing any of its advantages. The device as a whole may be materially reduced in length by placing the register within the lower part of the case in the same horizontal plane with the guide mechanism and other similar changes may suggest themselves which will be within the scope of my invention and I therefore do not intend to limit myself to the exact construction and arrangement of parts herein shown and described.

What I claim as new is—

1. The combination in a strip ticket case, of a bodily movable guide, a registering mechanism and means interposed between these two elements for receiving motion from the ticket strip in the guide and imparting the same to the registering mechanism, substantially as specified.

2. The combination in a strip ticket case, of a bodily movable guide, a registering mechanism, means interposed between these two elements to receive motion from the ticket strip in the guide and imparting the same to the registering mechanism and a device for moving the guide and throwing the register-operating means out of connection with the register, substantially as specified.

3. In a strip ticket case, the combination of a flat spring-pressed ticket guide, carrying a shaft provided with spurred wheels projecting into the path of the ticket and carrying a pinion, a registering mechanism capable of being operated by said pinion and means for throwing said pinion out of connection with said registering mechanism, substantially as specified.

4. In a strip ticket case, the combination of a bodily movable guide carrying spurred wheels and a registering mechanism operatively connected therewith whereby the extraction of a ticket operates the registering mechanism, substantially as specified.

5. A ticket case provided with a registering mechanism a bodily movable ticket guide carrying devices for operating the registering mechanism and means for moving said guide

bodily to throw said devices out of operativ position, substantially as specified.

6. In a ticket case, the combination of registering mechanism a spring-pressed guide carrying spurred wheels and a register-operating device and means for moving the guide against the action of the spring, substantially as specified.

7. A ticket case having a guide register-operating devices carried by said guide, means for throwing the latter out of operation and having a ticket reel or shaft and means projecting through the case for rotating said shaft for the purpose of rewinding a ticket or a portion thereof, substantially as specified.

8. A ticket case provided with a guide carrying a shaft having rotatably fixed thereon spurred wheels projecting into the path of the ticket and a pinion, a dial having a rack engaging with said pinion to actuate an index finger of the dial in the act of drawing the ticket strip from the case, substantially as specified.

9. A ticket case having a ticket carrying roll and a closure provided with a bearing for said roll and with a guide for the edge of the ticket, combined with a flat spring-pressed guide for the ticket substantially as specified.

10. A ticket case provided with registering mechanism a ticket guide mounted to slide and carry a pinion for cooperation with the registering mechanism and with a movable end piece having a bearing for the shaft of the ticket carrying reel and a guide for the edge of the ticket, as set forth.

11. A ticket case having a ticket passage and oppositely moving doors at the edge to disclose the edge of the ticket upon both sides permitting of its being punched without withdrawal from the case, substantially as specified.

In testimony whereof I affix my signature in presence of two witnesses.

SAMUEL I. BUTTERS.

Witnesses:
HEATH SUTHERLAND,
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