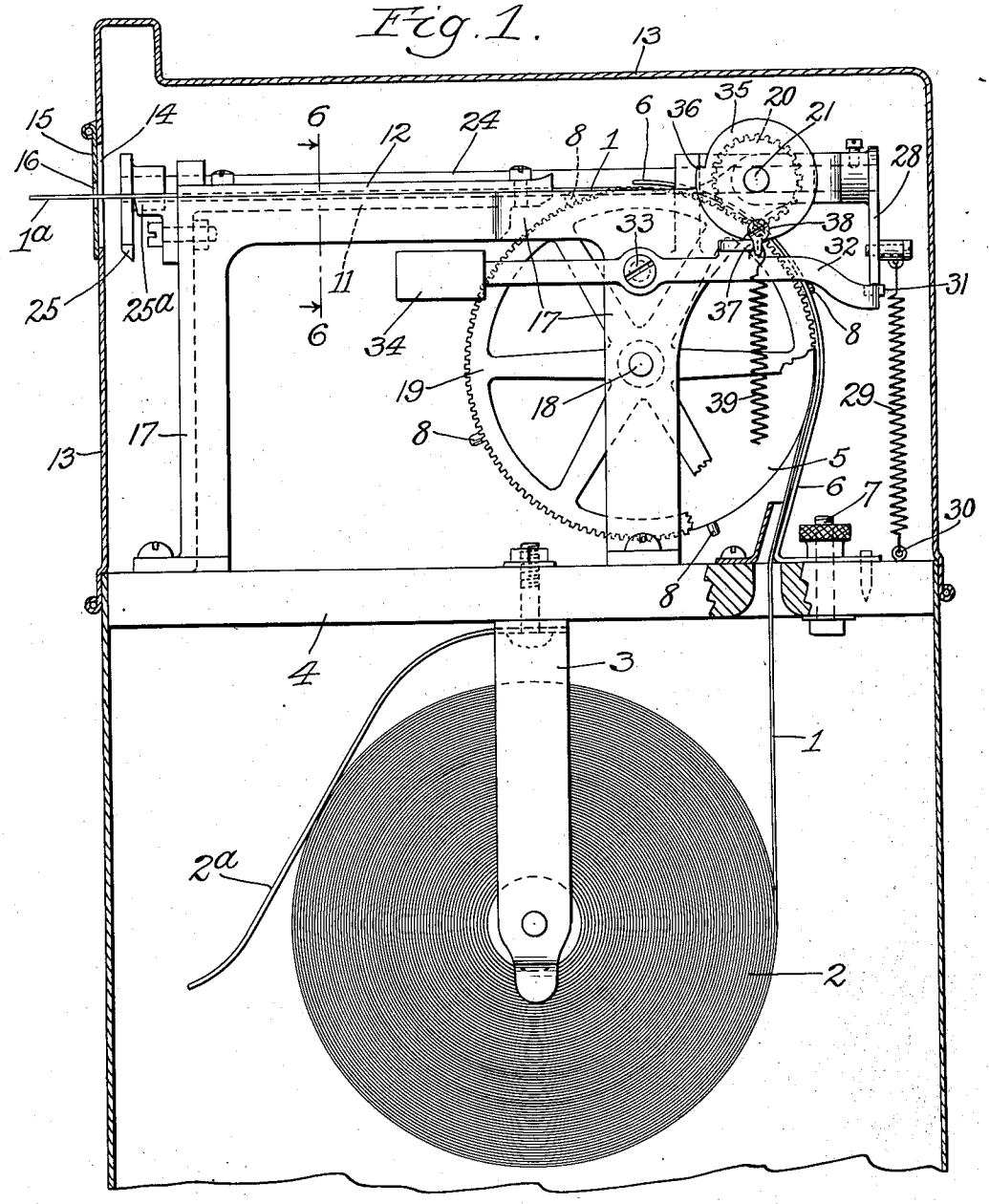
March 12, 1935. M. T. ASHE 1,993,951

TICKET DELIVERING DEVICE

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Fig. 1.



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TICKET DELIVERING DEVICE

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Fig. 2.

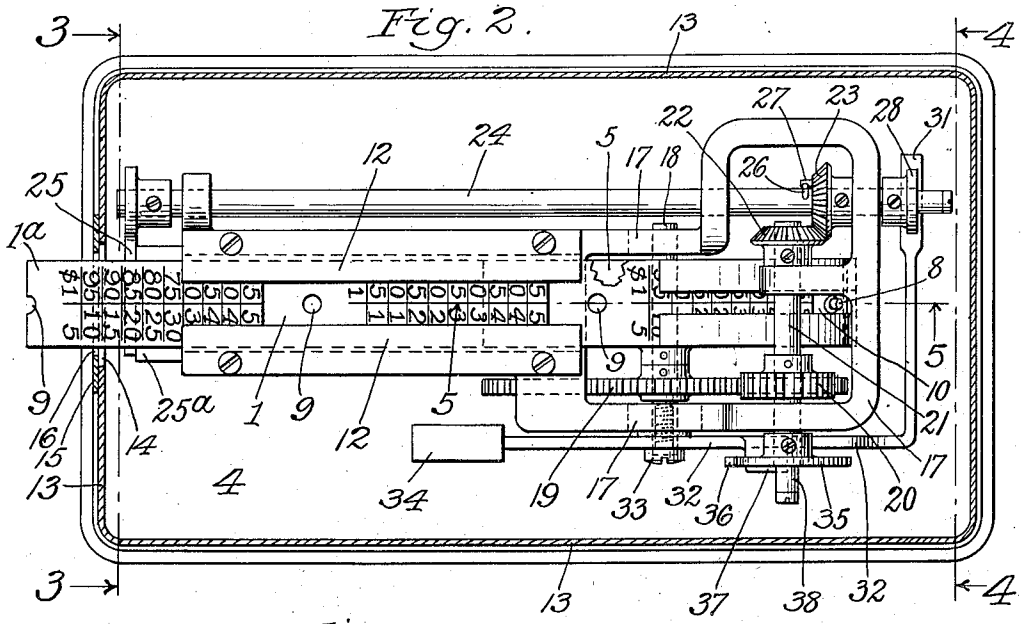


Fig. 3.

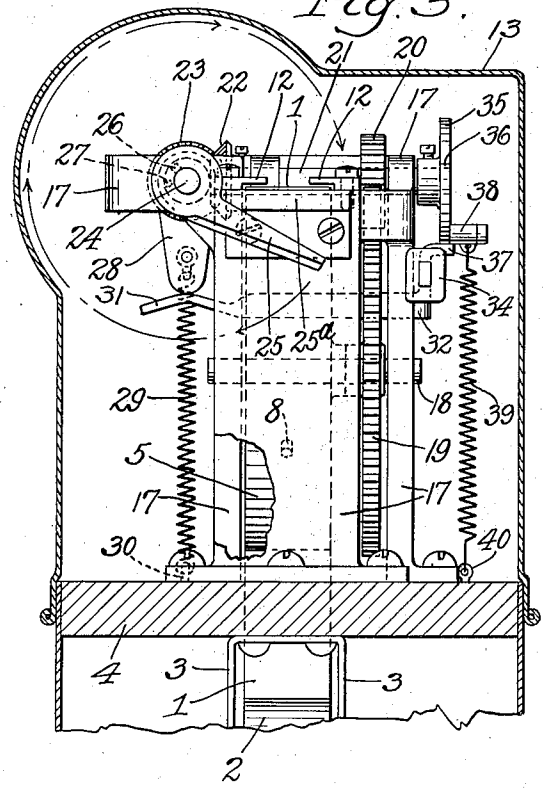
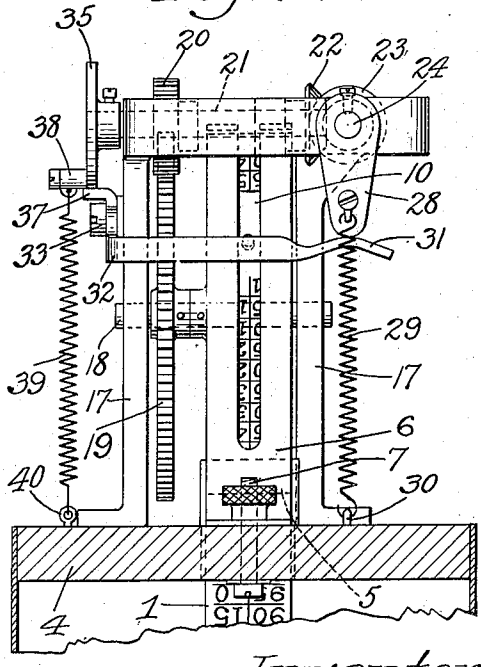


Fig. 4.



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Fig. 5.

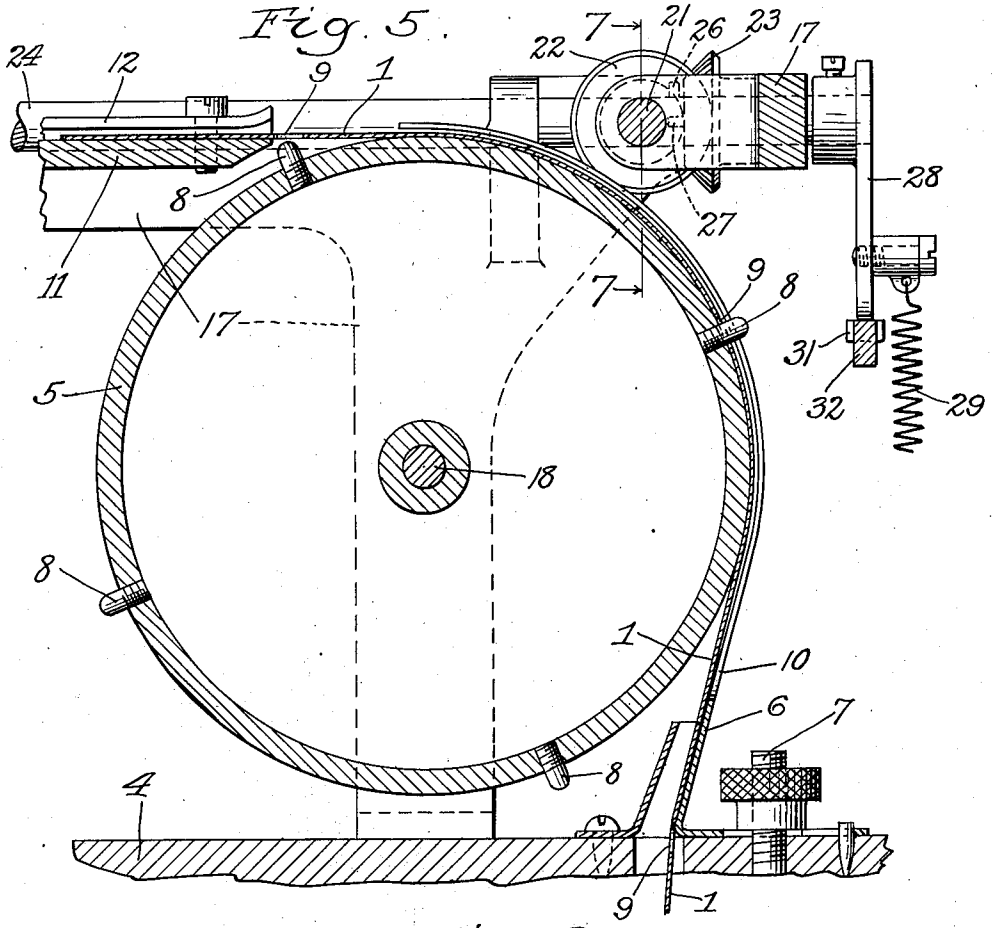


Fig. 8.

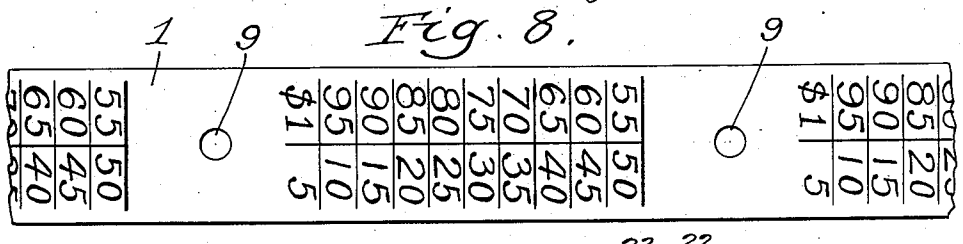


Fig. 6.

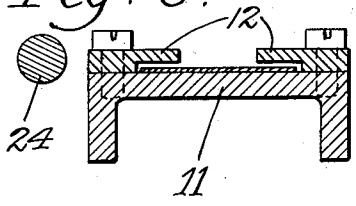
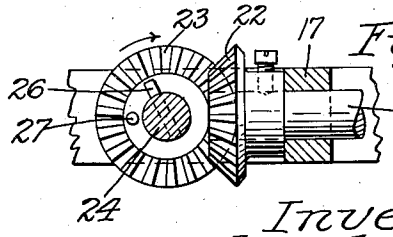


Fig. 7.



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Patented Mar. 12, 1935 1,993,951

UNITED STATES PATENT OFFICE

1,993,951

TICKET DELIVERING DEVICE

Marselius T. Ashe, Garden City, N. Y.

Application September 28, 1929, Serial No. 395,796

11 Claims. (Cl. 164—43)

This invention relates to devices for delivering tickets of various kinds, and is practically adapted for use in arts where each customer is provided with a ticket to show the amount of such customer's purchase. The invention has as a further object to provide a device of this kind, the mechanism of which is operated by the pull on the ticket. The invention has as a further object to provide a device of this kind, which shall be simple in its construction, cheap to construct and effective in its operation.

The invention has other objects, which are more particularly pointed out in the accompanying description.

Referring now to the drawings, Fig. 1 is a side view with casing in section, showing one form of device embodying the invention.

Fig. 2 is a plan view of the device, with the top of the casing removed.

Fig. 3 is a sectional view taken on line 3—3 of Fig. 2.

Fig. 4 is a sectional view taken on line 4—4 of Fig. 2.

Fig. 5 is an enlarged sectional view taken on line 5—5 of Fig. 2.

Fig. 6 is a sectional view taken on line 6—6 of Fig. 1.

Fig. 7 is a sectional view taken on line 7—7 of Fig. 5.

Fig. 8 is a view of a portion of the strip of tickets.

Like numerals refer to like parts throughout the several figures.

In the construction shown, the tickets are preferably arranged in a continuous strip and this strip is run through the machine and projects therefrom, so that it can be pulled by the party to whom the ticket is to be delivered and when so pulled, will operate the mechanism and cause the ticket to be separated from the strip. The strip of tickets may be arranged in any desired manner, and for purposes of illustration, I have shown the strip 1 in the form of a coil 2 rotatively mounted upon a suitable support 3 attached to the part 4 of the apparatus. A spring engaging member 2*a* engages the roll 2 to prevent overrunning thereof. The ticket strip 1 passes up through the part 4 and around a wheel 5 and is pressed against the wheel 5 and held in proper relation thereto by the member 6, fastened to the member 4 in any desired manner by means of bolt 7. This member 6 is preferably a spring member. The wheel 5 is provided with a series of projections 8 and the ticket strip is provided with a series of openings 9 (see Figs. 2, 5 and 8), into which the projections 8 pass. The member 6 is provided with a slot 10 (see Fig. 4) into which the projections 8 extend, the arrangement being such that the projections do not interfere with the operation of the member 6 in holding the ticket strip against the wheel and in proper relation to the projections 8. The ticket strip 1, after passing over the wheel 5, passes along a support 11 and in between removable guides 12 (see Figs. 2 and 6). The end 1*a* of the ticket strip projects from the casing 13, as shown in Figs. 1 and 2. The casing 13 may be of any suitable form and is preferably provided with an enlarged opening 14, so that the end of the ticket strip may be easily made to project from the casing and this opening is preferably provided with a pivoted guard member 15, having a much smaller opening 16. The wheel 5 is rotatably mounted upon a frame 17, by means of a shaft 18. The shaft 18 carries a gear 19, which rotates with the wheel 5 and the shaft 18 and which meshes with a pinion 20 on a shaft 21, rotatively mounted on the frame 17. The shaft 21 is provided with a beveled gear 22, which engages a beveled gear 23 loosely mounted on a shaft 24, also mounted on the frame 17. The shaft 24 has a knife 25 fastened thereto and which rotates with the shaft and which acts to successively sever the tickets from the strip. A fixed knife 25*a* is mounted on the forward end of the frame 17 to co-act with the rotating knife 25 in severing the tickets.

The parts are arranged so that the knife will sever a ticket of the desired length. The shaft 24 is provided with a projection 26, adapted to engage a projection 27 on the beveled gear 23. When the projections are engaged, the gear 23 rotates shaft 24. Connected with the shaft 24 so as to rotate therewith is a cam member 28, to which is connected a spring 29 attached at 30 to a fixed part. The cam member 28, when in a predetermined position, engages the end 31 of an arm 32 pivoted at 33 and provided with a retracting device or weight 34. The shaft 21 is provided with a cam 35, which has a shoulder 36. The pivoted lever 32 is provided with a cam engaging part 37, which is engaged by the shoulder 36 when the cam 35 is in a predetermined position. The weight 34 moves the lever 32 toward the cam 35 so as to insure the engagement between the shoulder 36 on the cam and the cam engaging part 37 on the lever. The cam 35 is provided with a projection 38, to which is connected a spring 39 attached at 40 to a fixed part.

The use and operation of my invention are as follows:

When the parts are in the position shown in Fig. 1, the customer takes hold of the end 1a of the ticket strip 1 and pulls upon it, and the knife severs the ticket at the proper place, in the particular construction shown between the sets of figures shown in Fig. 8. This cut-off is accomplished as follows:

The pull upon the strip 1, due to the projections 8, causes the wheel 5 to rotate. This rotates the shaft 21 through gear 19 and pinion 20. This causes the cam 35 to rotate and also causes the beveled gear 22 to rotate. The engagement of beveled gear 22 with beveled gear 23 causes beveled gear 23 to rotate. Pin 27 then engages pin 26 and causes shaft 24 to rotate, moving the knife 25 around towards its cutting position. At the same time, the cam member 28 and the cam 35 are being moved. When the end of the strip 1 is pulled out the proper distance, the cam member 28 is in a position out of engagement with the lever 32 and the shoulder 36 of the cam 35 is in engagement with the cam engaging part 37 of the lever 32. This engagement of the cam 35 with the lever 32 prevents the further rotation of the shaft 21 at this time. When the parts reach this position, however, the cam member 28 is past its dead center, so that the spring 29 pulls it around quickly and rotates the shaft 24, the projection 26 moving away from the projection 27 and the knife 25 by this movement being suddenly and forcibly brought into contact with the strip 1 so as to cut the end of the strip off, as the rotating knife moves past the fixed knife 25a. By the time the knife has moved to cut off the end of the strip, the cam member 28 engages the end 31 of the lever 32 and moves the lever 32 downwardly so as to disconnect the shoulder 36 of cam 35 from the cam engaging part 37 of lever 32. The spring 39 then moves the cam 35 and shaft 21 around about ninety degrees. This causes the wheel 5 to rotate a sufficient amount to project the end of the strip from the casing, so that it can be grasped by the customer. The parts are then in position to sever another ticket by the operation hereinbefore described.

It will be seen that this construction provides a simple, cheap and efficient mechanism for severing the ticket, which mechanism is operated by the pull of the ticket strip by the customer.

I claim:

1. A ticket delivering device for severing tickets from a strip and delivering them to a customer, comprising a severing part for severing the tickets from the strip and a positive connection between said severing part and said strip for positively moving said severing part towards its severing position through the agency of the ticket strip.

2. A ticket delivering device for cutting tickets from the strip and delivering them to a customer, comprising a severing device and actuating mechanism therefor, means for positively connecting the actuating mechanism with the ticket strip so that the severing device will be actuated and positively moved toward its severing position when the customer pulls on the strip and responsive to the pull on said strip.

3. A ticket delivering device for severing tickets from a ticket strip and delivering them to a customer comprising a knife and actuating device for moving said knife towards its cutting position, said actuating device connected with the strip so as to be actuated by the pull of the strip and means for disconnecting the knife from the actuating device and moving it, independently of the actuating device to perform its final cutting movement.

4. A ticket delivering device for severing tickets from a ticket strip and delivering them to a customer comprising a knife and actuating device for moving said knife towards its cutting position, said actuating device connected with the strip so as to be actuated by the pull of the strip and means for disconnecting the knife from the actuating device and moving it independently of the actuating device to perform its final cutting movement, and means for again connecting said knife with said actuating device.

5. A ticket delivering device for severing tickets from the strip and delivering them to a customer comprising a wheel, a series of projections on said wheel, said strip being provided with openings properly spaced to receive said projections, a knife for severing tickets from the strip, means positively actuated by said wheel for moving said knife simultaneously with the movement of said wheel and responsive thereto.

6. A ticket delivering device for severing tickets from the strip and delivering them to a customer comprising a wheel, a series of projections on said wheel, said strip being provided with openings properly spaced to receive said projections, a knife for severing tickets from the strip, means positively actuated by said wheel for moving said knife so that the knife is actuated and moved towards its severing position, and means for disconnecting said wheel from said knife so that the strip may be moved by the knife actuating means a predetermined amount, independently of the knife.

7. A ticket delivering device for severing tickets from a strip and delivering them to a customer comprising a wheel, a series of projections on said wheel, the strip being provided with a series of spaced openings to receive said projections so that when the strip is pulled, the wheel will be turned, a shaft operatively connected with said wheel, a cam on said shaft provided with a shoulder, a pivoted lever having a cam engaging part for engaging said shoulder, means independent of the pull of the ticket for moving said shaft, a predetermined amount when it is released from said lever, a knife connected therewith for severing tickets from the strip, means for connecting said knife shaft with said shaft and means associated with said knife shaft for disconnecting said cam and said lever.

8. A ticket delivering device for severing tickets from a strip and delivering them to a customer comprising a wheel, a series of projections on said wheel, the strip being provided with a series of spaced openings to receive said projections so that when the strip is pulled, the wheel will be turned, a shaft operatively connected with said wheel, a cam on said shaft provided with a shoulder, a pivoted lever having a cam engaging part for engaging said shoulder, means independent of the pull of the ticket for moving said shaft a predetermined amount when it is released from said lever, a knife connected therewith for severing tickets from the strip, means for connecting said knife shaft with said shaft and means associated with said knife shaft for disconnecting said cam and said lever, means for disconnecting the knife shaft from said wheel and means for moving the knife shaft during the latter part of its cutting movement, independent of said wheel.

9. A ticket delivering device for severing tickets from a strip and delivering them to a customer

comprising a wheel, a series of projections on said wheel, the strip being provided with a series of spaced openings to receive said projections so that when the strip is pulled, the wheel will be turned, a shaft operatively connected with said wheel, a cam on said shaft provided with a shoulder, a pivoted lever having a cam engaging part for engaging said shoulder, means independent of the pull of the ticket for moving said shaft a predetermined amount when it is released from said lever, a knife connected therewith for severing tickets from the strip, means for connecting said knife shaft with said shaft and means associated with said knife shaft for disconnecting said cam and said lever, said means comprising a cam member on the cam shaft which engages said lever.

10. A ticket delivering device for severing a ticket from the strip and delivering it to the purchaser, comprising a severing part past which the strip is moved, two actuating means for moving said severing part, one positively actuated by the movement of the strip and the other actuated independently of the movement of the strip.

11. A ticket delivering device for severing tickets from the strip and delivering them to the customer, comprising a wheel, a series of projections thereon, the strip being provided with openings to receive said projections so that when the strip is pulled, the wheel will be turned, a member associated with said wheel for holding the strip in engagement with said projections and a severing part, an operative connection between said severing part and said wheel so that the severing part is actuated and moved towards its severing position by the initial pull on said strip.

MARSELIUS T. ASHE.