Aug. 21, 1951 W. W. WINGO 2,564,872

TURNSTILE

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Fig. 1.

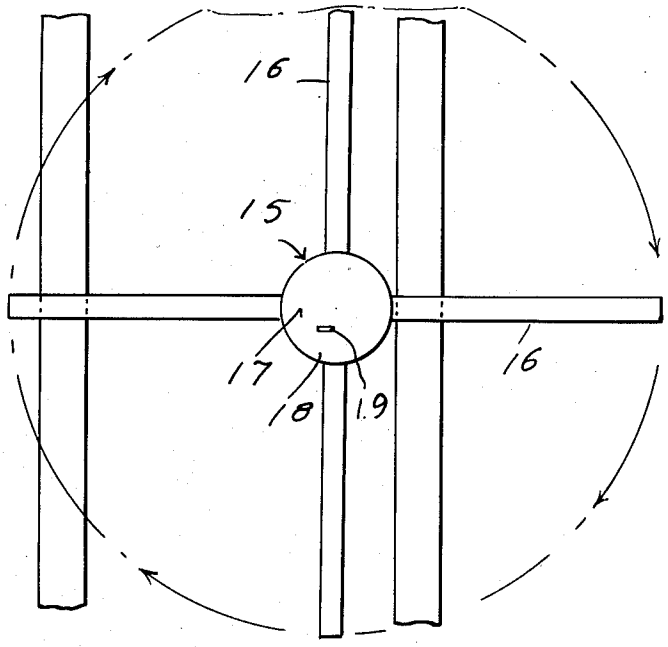
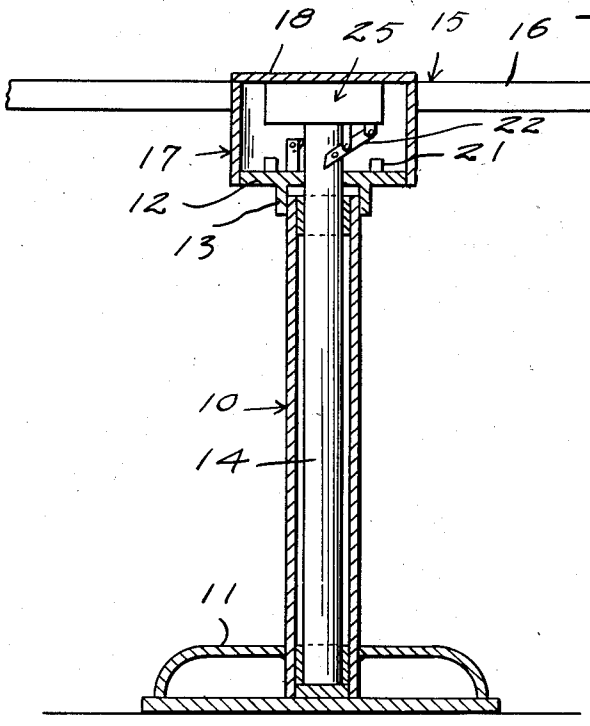


Fig. 2.



Inventor

W. W. Wingo

By Kimmel & Crowell

Attorneys

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Fig. 3.

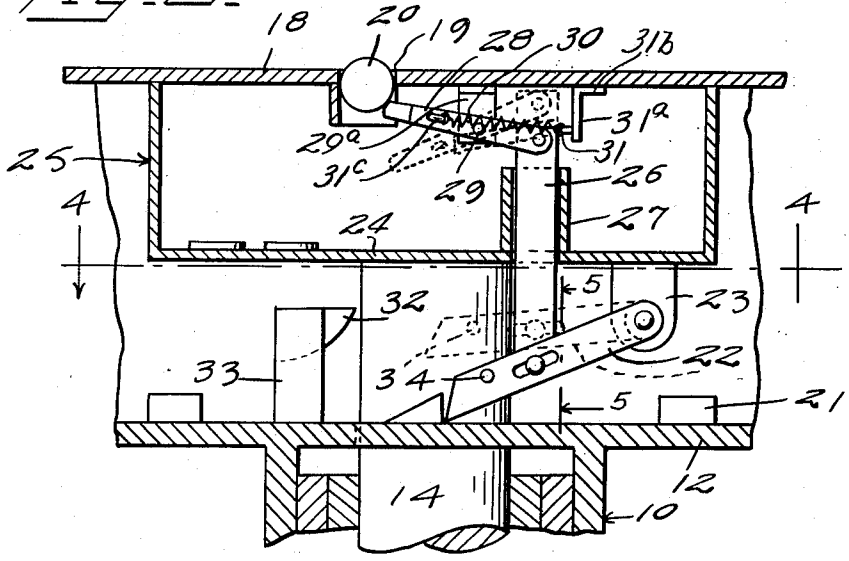


Fig. 4.

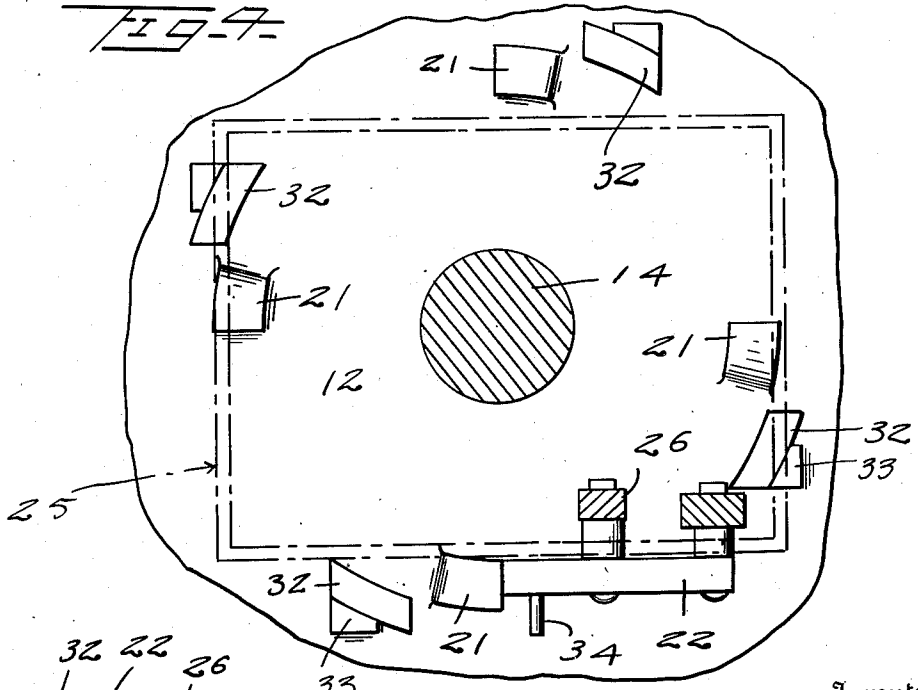
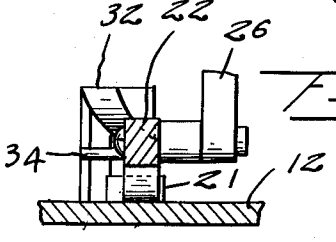


Fig. 5.



Inventor

W. W. Wingo

By Kimmel & Crowell

Attorneys

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UNITED STATES PATENT OFFICE

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TURNSTILE

William Wilson Wingo, Wilburton, Okla.

Application June 17, 1948, Serial No. 33,461

2 Claims. (Cl. 39—3)

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This invention relates to turnstiles.

An object of this invention is to provide an improved turnstile for mounting in a theater entrance, bus station or other location, which is released for operation by means of one or more coins of required denomination, and is automatically reset upon the passage of one person.

Another object of this invention is to provide in a turnstile an improved coin actuated release means embodying in one embodiment of this invention a spring-pressed latch release lever which is spring urged to either locking or releasing position, being moved to releasing position by means of the inserted coin, and being moved to latched position under the action of a cam which engages the latching pawl. In another embodiment of this invention the latching pawl is released electrically, and is held in either latched or released position by means of a cam spring.

With the above and other objects in view, my invention consists in the arrangement, combination and details of construction disclosed in the drawings and specification, and then more particularly pointed out in the appended claims.

In the drawing,

Figure 1 is a fragmentary horizontal section of a passageway having a turnstile mounted therein constructed according to an embodiment of this invention,

Figure 2 is a fragmentary vertical section of the turnstile,

Figure 3 is a fragmentary vertical section on an enlarged scale of the coin operated latching means,

Figure 4 is a fragmentary sectional view taken on the line 4—4 of Figure 3,

Figure 5 is a fragmentary sectional view taken on the line 5—5 of Figure 3.

Referring to the drawing, the numeral 10 designates generally a standard of tubular construction which is mounted on a base 11. The standard 10 has fixed to the upper end thereof a disc-shaped plate 12 formed with a depending bushing 13 which may be secured to the upper end of the standard 10. The standard 10 has mounted therein a vertically disposed shaft 14 on the upper end of which is mounted a turnstile structure 15.

The turnstile structure 15 includes a plurality of divergent bars 16 which are secured to a housing 17 fixed to the upper end of the rotatable shaft 14. The housing 17 includes a top plate 18 having one or more coin slots 19 through which a coin 20 is adapted to be extended. The plate or disc 12 has fixed to the upper side thereof at least 4 circumferentially spaced apart lugs or teeth 21 with one of which a dog or pawl 22 is

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adapted to be engaged. The pawl 22 is rockably carried by ears 33 depending from the bottom wall 24 of a receptacle 25 which is disposed within the housing 17.

The pawl 22 has pivotally secured thereto a vertically disposed link 26 which engages through a guide 27 carried by the receptacle 25. The upper end of the link 26 is rockably connected to a coin actuated lever 28 pivotally secured as at 29 to a boss 29a to the top wall 18. A spring 30 which is secured at one end as at 31 to a bracket 31a fixed to the top wall 18, as at 31b, is connected with the lever 28 forwardly of the pivot 29 so that the spring 30 will hold the lever 28 in either an upper set position or in a lower pawl releasing position, shown in dotted lines. When the pawl 22 has been raised out of engagement with the adjacent tooth 21, the turnstile 15 may be rotated at least one-quarter turn, as shown in dotted lines, and at a point between adjacent pairs of teeth 21 a re-setting cam 32 is disposed which is mounted on a support 33 carried by the disc 12.

The pawl 22 has a cam engaging pin 34 fixed thereto which is adapted to engage the cam 32 upon rotation of the housing 17 so that the pawl 22 will be lowered to a point where the spring 30 will move above the horizontal center of the pivot 29 and raise lever 28, and upon raising of lever 28 by spring 30, pawl 22 will be rocked downwardly to sliding engagement with disc 12 and in a position to abut against the next adjacent tooth 21.

This turnstile has been designed particularly to provide a means whereby patrons of theaters, buses or the like may enter the theater or bus station without first purchasing a ticket, the turnstile being designed to eliminate the purchase of tickets.

I do not mean to confine myself to the exact details of construction herein disclosed but claim all variations falling within the purview of the appended claims.

What I claim is:

1. A coin operated turnstile comprising an upright standard, a vertically disposed shaft rotatably carried by said standard, a housing fixed to said shaft, a toothed plate fixed to said standard and forming the bottom wall of said housing, radial arms extending horizontally from said housing, a pawl rockably carried by said housing engageable with the teeth of said plate, a pawl operating lever rockably carried by said housing, a link connecting one end of said lever with said pawl, a spring connected with said lever in a manner to hold said lever in either pawl released

or latched position, and correlated means carried by said plate and said pawl for rocking the latter downwardly to latching position upon rotation of said housing.

2. A coin operated turnstile comprising an upright standard, a vertically disposed shaft rotatably carried by said standard, a housing fixed to said shaft, a toothed plate fixed to said standard and forming the bottom wall of said housing, radial arms extending horizontally from said housing, a pawl rockably carried by said housing engageable with the teeth of said plate, a pawl operating lever rockably carried by said housing, a link connecting one end of said lever with said pawl, a spring connected with said lever in a manner to hold said lever in either pawl released or latched position, a stationary cam carried by said plate between each pair of teeth, and a cam engaging member carried by said pawl engageable with an adjacent cam upon rotation of said housing for rocking said pawl downwardly to latching position.

WILLIAM WILSON WINGO.

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