C. FLINT.

INDICATOR FOR STREET CARS AND THE LIKE.

APPLICATION FILED APR. 26, 1916.

1,265,071. Patented May 7, 1918.

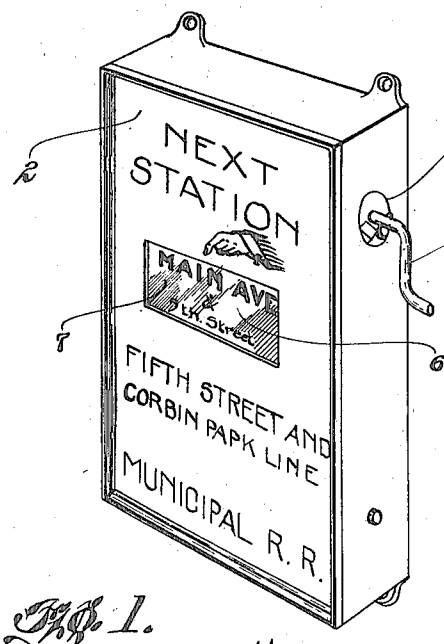


Fig. 1.

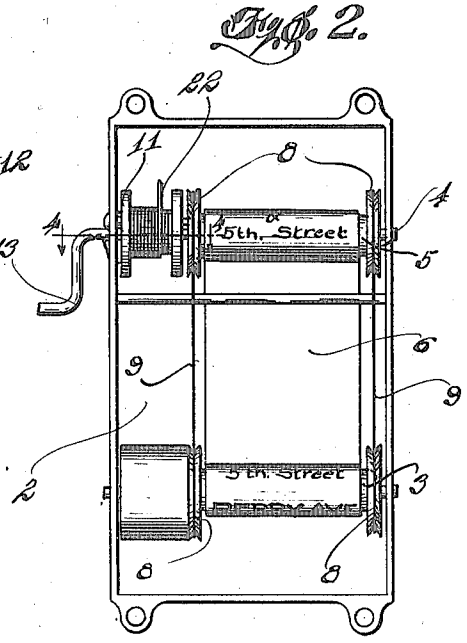


Fig. 2.

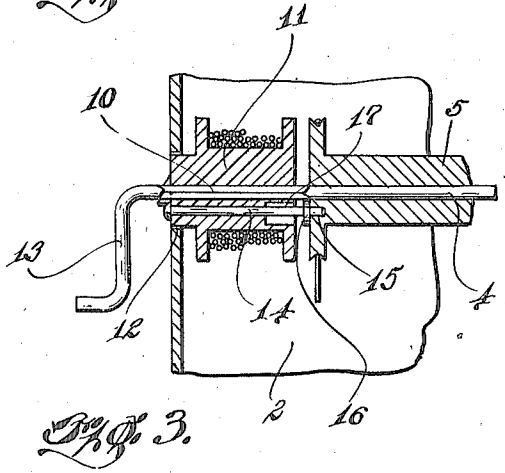


Fig. 3.

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INDICATOR FOR STREET-CARS AND THE LIKE.

1,265,071. Specification of Letters Patent. Patented May 7, 1918.

Application filed April 26, 1916. Serial No. 93,668.

To all whom it may concern:

Be it known that I, CHARLES FLINT, a citizen of the United States, residing at Spokane, in the county of Spokane and State of Washington, have invented certain new and useful Improvements in Indicators for Street-Cars and the like, of which the following is a specification.

This invention relates to new and useful improvements in station indicators for street cars and the like and the primary object is to provide a simple and efficient device of this character which may be quickly and readily operated by either the motorman or conductor of the car to indicate to the passengers thereof the various stations along the route.

A further object of the invention resides in providing a device which may be operated by hand or by motor.

Still another object resides in providing a device which may be readily and quickly applied to any car now in use and which is inexpensive to manufacture and one which will be very efficient in use.

With these and other objects in view my invention consists in the novel features of construction, combination and arrangement of parts, as will be hereinafter referred to and more particularly pointed out in the specification and claim.

In the accompanying drawings, forming a part of this application:—

Figure 1 is a perspective view of the indicator proper;

Fig. 2 is a vertical transverse section therethrough;

Fig. 3 is a section as seen on the line 4—4 of Fig. 2.

In describing the invention, I shall refer to the drawings in which similar reference characters designate corresponding parts throughout the several views of the device as used on a street car of the usual or any preferred type or it may be any moving apparatus for the purpose of carrying passengers and in carrying out my invention the improved indicator designated at 2 is preferably used at the front of the car. The indicator proper consists of an outer casing or the like which is adapted to be secured in place, said casing having rotatably mounted adjacent the lower end thereof, a spool or roller 3. Rotatably mounted in the casing adjacent the upper end thereof is a shaft 4 upon which is loosely mounted a spool or roller 5 and operating on these spools or rollers 3 and 5 is the belt or webbing 6 which is adapted to have printed thereon the various stations, which stations may be observed through an opening 7 in the front of the casing, as clearly shown in Fig. 1 of the drawings. The webbing or belt 6 is adapted to be unwound from one spool or roller on to the other and formed integral with or otherwise secured to the rollers 3 and 5 at the ends thereof are the pulleys 8 over which are trained the endless cords or the like 9. The spools or rollers are thus caused to be rotated simultaneously.

One end portion of the shaft 4 carrying the spool 5 is squared, as shown at 10, this squared portion extending beyond the spool last mentioned and arranged on the squared portion of the shaft is an additional spool 11. This spool 11 has an extension thereon which fits or is guided in the enlarged opening 12 of the one side of the casing, as clearly shown in Figs. 1 and 3 of the drawings. The outer end of the shaft 4 has a crank handle 13 thereon whereby the shaft may be rotated by hand, if desired, and in order to rotate the spool 5 connection must be made between the latter and the spool 11. To this end a sliding pin 14 is provided in the spool 11 which projects outwardly through the outer end thereof the extreme inner end of the same being adapted to be received in a socket 15 in the end of the spool 5. A collar or the like 16 on the inner end of the pin 14 is adapted to abut the outer face of the spool 5 to limit the movement of said pin thereagainst and said collar is adapted also to limit the movement outwardly of said pin, a socket 17 being provided on the inner face of the spool 11 for the reception thereof, as clearly shown in Fig. 3. It will be seen from this construction that when the sliding pin 14 has been disposed inwardly so as to connect with the spool 5, the latter may be rotated with the spool 11 by an operation of the handle 13.

In some instances the indicator may be operated from a distance, as by a motor, not shown, having a flexible connection 22 which extends a suitable distance according to the position of the indicator proper, and connects with the spool 11 upon which the same is wound or unwound as the case may be.

When the forward movement of the belt or webbing 6 has reached its limit, which in this instance will be the end of the route of

the car, it is necessary to reverse the direction of the movement of the belt. This reverse movement is accomplished by withdrawing the pin 14 from its engagement with the spool 5 and unwinding the connection 22 from the spool or reel 11. This cord or connection is then re-wound on said spool or reel 11 in the opposite direction, which will obviously reverse the movement of the belt or webbing 6 when the device is further connected for operation.

From the foregoing description of the construction of my improved device, the operation thereof will be readily understood and it will be seen that I have provided a simple, inexpensive and efficient means for carrying out the objects of the invention.

While I have particularly described the elements best adapted to perform the functions set forth, it is obvious that various changes in the form, proportion and in the minor details of construction may be resorted to without departing from the spirit or sacrificing any of the principles of the invention.

Having thus described my invention, what I claim and desire to secure by Letters Patent, is:—

In a station indicator, the combination with a casing and a roller mounted therein, of a driving shaft and operating means therefor, a loose roller on the shaft having a socket, and a webbing passed over said rollers, a fixed spool on the shaft having a bearing hub in the casing and formed with a recess in one face, and a slidable locking pin in the spool adapted to engage in said socket and having a collar between the spool and socket of the roller adapted to be withdrawn into the recess.

In testimony whereof I affix my signature.

CHARLES FLINT.