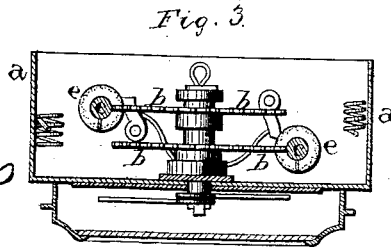
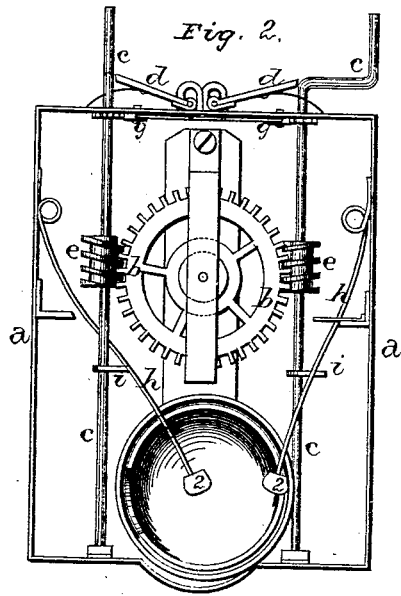
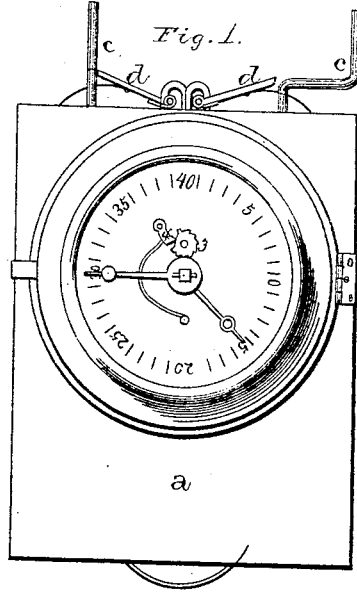


V. FOUNTAIN, JR.
FARE-REGISTER.

No. 188,349.

Patented March 13, 1877.



WITNESSES.

J. W. Garner
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UNITED STATES PATENT OFFICE.

VINCENT FOUNTAIN, JR., OF WEST NEW BRIGHTON, NEW YORK.

IMPROVEMENT IN FARE-REGISTERS.

Specification forming part of Letters Patent No. 188,349, dated March 13, 1877; application filed January 20, 1876.

To all whom it may concern:

Be it known that I, VINCENT FOUNTAIN, Jr., of West New Brighton, in the county of Richmond and State of New York, have invented certain new and useful Improvements in Conductor's Fare-Register; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it pertains to make and use it, reference being had to the accompanying drawings, which form part of this specification.

My invention relates to an improvement in fare-registers; and it consists in the arrangement and combination of parts, that will be more fully described hereinafter, whereby the full and half fares are registered and an alarm sounded as rapidly as collected by the conductor, the full and half fares being registered by entirely separate and distinct mechanisms.

The accompanying drawings represent my invention.

a represents a box or frame, made of any suitable material, size, or shape, and which has formed on its face a suitable dial and two separate and distinct hands, one of which registers full, and the other half, fares. Connected in any desired manner with the mechanism of these hands are any well-known devices for registering hundreds, thousands, tens of thousands, &c., but as this forms no part of my invention these devices are not here shown. The glass door which incloses these registering devices will be, of course, so locked or sealed as to prevent the hands or registers from being tampered with.

Passing vertically down through the frame are the two rods *c*, which have their outer ends cranked, so as to form handles, by which they are turned; and formed upon them near their centers are the worms or threads *e*, which mesh with and turn the spur-wheels *b*. These worms and wheels are so proportioned to each other that for every complete revolution of one of the rods one of the register-hands will be moved forward just one space. Upon the top of the frame *a* are the two spring catches or dogs *d*, which prevent the rods from being moved more than one revo-

lution at a time, while inside of the case are the spring-dogs *g*, which catch in ratchets on the rods and prevent the rods from being moved backward, and thus tampering with the registers.

Were it not for the dogs *g* and their ratchets, the motion of the shafts could be reversed, and thus the hands moved backward, so that no correct account of the number of fares collected could be kept in case the conductors were dishonest.

Upon each rod is also a cam or projection, *i*, which catches against the bent spring-rods *h* having the hammers 2 upon their ends, and moves them backward a certain distance, and then lets them slip off, so as to cause the hammer to strike its bell, and thus sound an alarm for each fare collected. There are two of these bells, placed one within the other, each one of which is struck by its own hammer, the inner one having a portion of its edge cut away, so as to let the outer bell be struck through it.

As these bells are of different sizes, the difference in their sound can soon be recognized, and thus informers can detect whether a full or half fare has been registered.

One great advantage gained by thus placing one bell within the other is that the whole apparatus can then be made very compact.

One of the wheels *b* has a sleeve attached to it, which passes over the axle of the other wheel, as shown, the front end of the sleeve having a hand attached to it.

On the dial-face is placed a small ratchet, 3, which is prevented from turning backward by the spring-dog 4. As the lower one of the hands sweeps around, a projection on its under side catches in its teeth and moves it forward one tooth at each revolution, and thus registers the kind of fares indicated by this hand.

Having thus described my invention, I claim—

1. In an apparatus for registering and indicating fares, and adapted to be carried in the hand, a shaft moved by the direct application of the hand, provided with a worm meshing into a suitable wheel, and thereby communicating motion to the mechanism

which carries the indexes, and also provided with an arm which operates the bell-hammer, substantially as set forth.

2. In the described apparatus, the rotating shaft-worm thereon, operating to impart motion, through proper gearing, to the indexes and the hammer-lifters, in combination with the pawl and ratchet on the said shaft, as set forth.

In testimony that I claim the foregoing I have hereunto set my hand this 5th day of January, 1876.

VINCENT FOUNTAIN, JR.

Witnesses:

DANIEL BROWN,
GEO. STEPHENS.