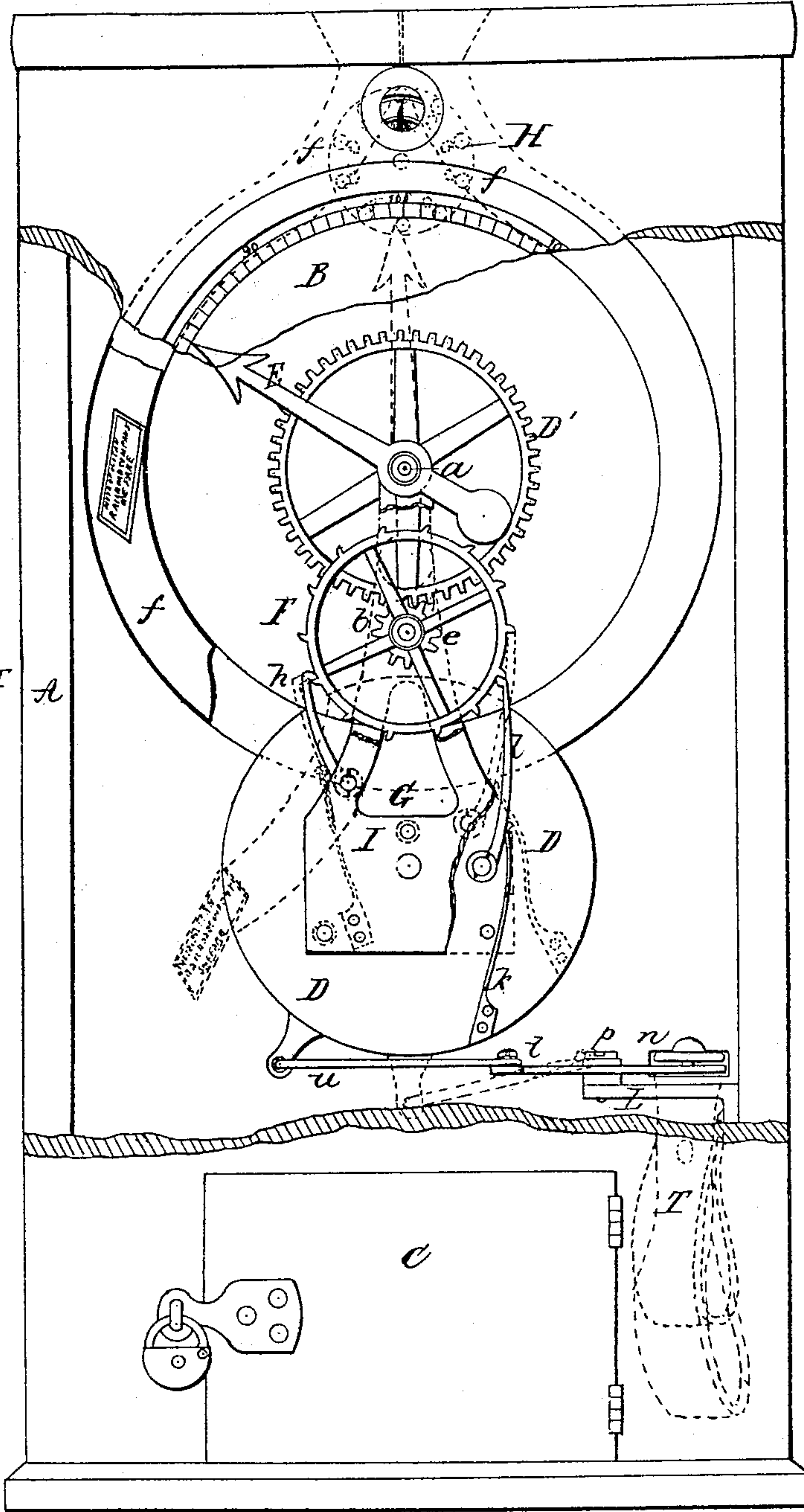
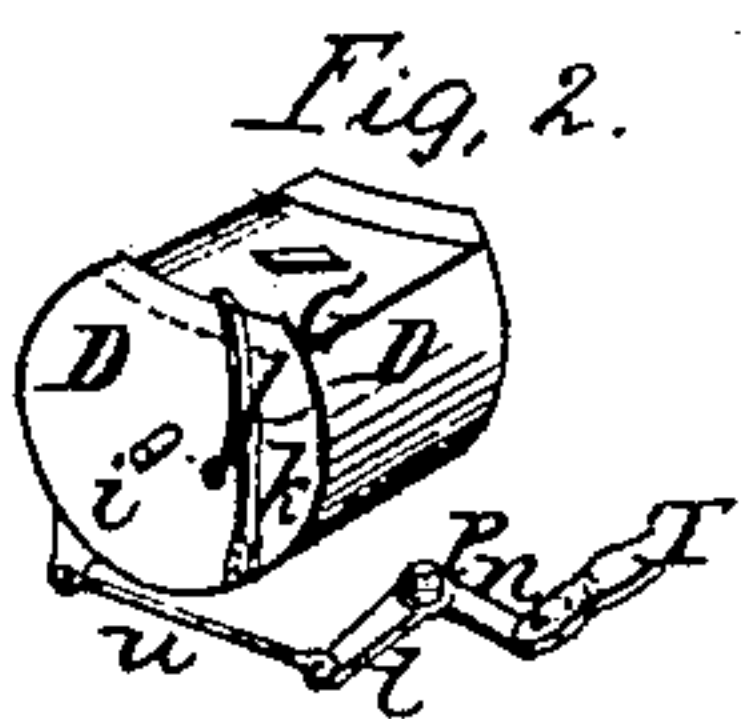


# W. G. Smoot. Fare Box.

N<sup>o</sup> 81,223.

Patented Aug. 18, 1868.

Fig. 1



Witnesses,  
P. J. Dodge  
J. Haller.

Inventor,  
W. G. Smoot.  
by Dodge & Haller  
his Atty.



# UNITED STATES PATENT OFFICE.

W. G. SMOOT, OF WASHINGTON, DISTRICT OF COLUMBIA, ASSIGNOR TO  
HIMSELF AND ANTONIO PELLETIER, OF SAME PLACE.

## IMPROVEMENT IN REGISTERING FARE-RECEIVERS.

Specification forming part of Letters Patent No. 81,223, dated August 18, 1863.

*To all whom it may concern:*

Be it known that I, W. G. SMOOT, of Washington city, in the county of Washington and District of Columbia, have invented certain new and useful Improvements in Fare Receiver and Register; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, making part of this specification, and to the letters of reference marked thereon, like letters indicating like parts wherever they occur.

To enable others skilled in the art to construct and use my invention, I will proceed to describe it.

My invention consists in a novel construction of a combined receiver and register for the fare of passengers, to be used on street-cars, omnibuses, and similar conveyances.

The drawings represent a front elevation of the apparatus, with a portion of the case broken away to show the internal arrangement.

In constructing my apparatus, I make a rectangular case or box, A, and near its upper end place a dial, B, on which are marked a series of graduations, numbered consecutively from one up to one hundred, as represented. From an opening in the top of the case A, a tube or passage, *f*, extends down on each side of the dial, and terminating near the bottom of the dial on each side, at the edge of a rocking table, G, the upper surface of which is so arranged as to be flush with and form a continuation of the outer wall of the passages *f*, the table G being made of such a size as to reach across from the lower end of the passage *f*, on one side, to the other on the opposite side. This table G has attached to its under side a strip of metal, which is bent in the form of a circle, its opposite ends being secured to the opposite edges of the table G, the whole thus forming a cylinder, D, with its upper surface cut away on a line corresponding with the circle formed by the passages *f*. This cylinder I pivot at its center on journals *i* at each end, the front one having its bearing in the frame I, in which the registering mechanism is mounted, as shown in the drawing.

Upon a bracket, L, within the case, I pivot an elbow-lever, by a pin, *p*, and to one arm, *n*,

of this lever, I attach a strap, T, as shown, while to the opposite arm, *t*, I pivot a rod, *u*, the other end of which is attached to the cylinder D, as represented, so that by pulling on the strap T the cylinder is rotated far enough to tilt the table G, as represented, whereby any tickets or change that may have fallen upon it through the passages or tubes *f* will be thrown off, and will fall into the lower portion of the case, from whence they can be removed by the proper person through a door, C.

The registering mechanism consists of an index, E, mounted on a shaft, *a*, at the center of the dial, and supported at its front end in a metal standard or frame, I. Upon this shaft *a* is also secured a wheel, D', which is driven by a pinion, *b*, secured upon a corresponding shaft, *e*, below; and on this latter shaft is also placed a ratchet-wheel, F, concentric with the pinion *b*.

To the cylinder or to table G is attached a pawl, *l*, which, as the table is tipped, pushes the ratchet-wheel F just far enough to move the index E one division, there being a stationary pawl, *h*, secured to the frame I, and engaging with the teeth of the ratchet-wheel on the opposite side, to prevent the wheel from moving backward.

At the upper side, and in front of the dial B, is located a smaller dial, H, having its face marked with ten equal divisions and corresponding numbers. This dial is journaled so as to turn freely on its bearing, and there is a small opening made in the case so as to permit the figures on the dial-wheel to be seen through it, one at a time, as they are brought successively around opposite to it. This dial-wheel has projecting from its face a series of pins corresponding with the numbers on it, and as the index E is brought around opposite the dial-wheel H it strikes against one of the pins on the dial-wheel, and thereby rotates it one-tenth of a revolution.

By this arrangement of the mechanism, it will be seen that each time the strap T is pulled to tip the table G and deposit the ticket in the box below, the index E will be moved so as to count one on the dial B, and that when the index E has made an entire revolution, and counted one hundred, it will



move the dial-wheel H one division; and this operation will, of course, be repeated at each revolution of the index E. Thus all numbers up to one hundred will be numbered on the dial B, and the number of hundreds will be registered on the dial-wheel H.

The table G will have a weight or a spring arranged to return it to its proper position for receiving the tickets from the tubes *f*, as soon as the strap is released.

In operation, the ticket or fare is placed in the opening at the top of the case, as is customary in this class of devices, and as it passes down the tube and falls upon the table, the driver or operator pulls the strap, and thus registers the number of fares paid. If more than one fare is placed in the box at one time, the strap must be pulled a corresponding number of times.

By this means a register is kept of the number of fares paid, and if, by any means, a

portion is abstracted, the register affords the means of detecting it.

The apparatus is simple, and is operated by the same movements required in those having no register.

Having thus described my invention, what I claim is—

1. The registering apparatus consisting of the stationary dial B, with the index E, operated by the tilting table G, and the rotating dial-wheel H, all constructed and arranged to operate substantially as described.

2. The combination of the registering apparatus, as above described, with the case A, having the tubes *f* and the tilting table G arranged therein, substantially as set forth.

WM. G. SMOOT.

Witnesses:

P. T. DODGE,  
L. HAILER.