

C. H. COFFIN.

Indicators for Railroad-Cars.

No. 139,771.

Patented June 10, 1873.

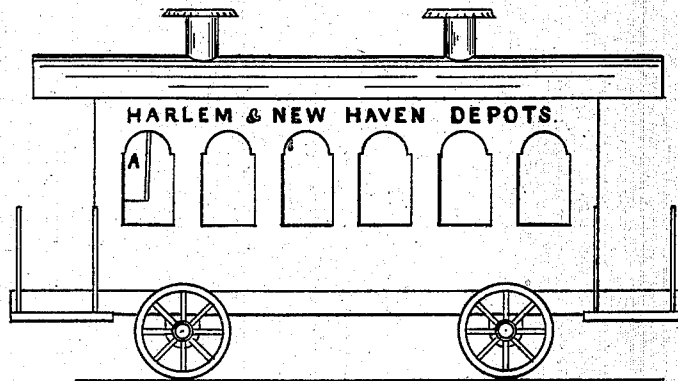


Fig. 1.

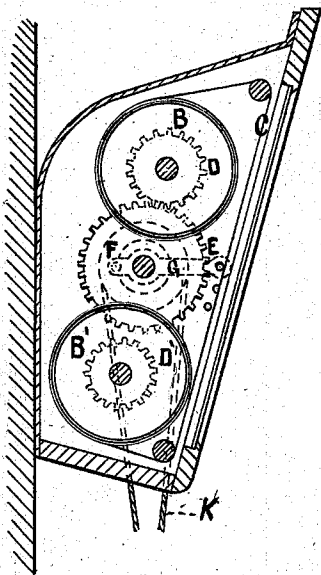


Fig. 2.

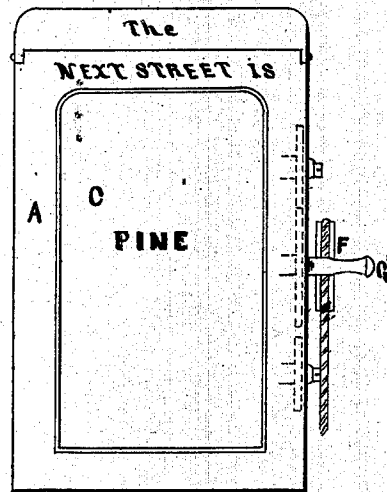
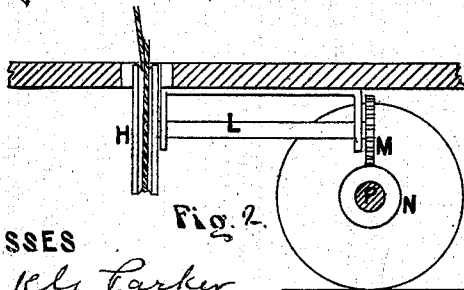


Fig. 3.



WITNESSES

Franklin Parker
John J. Harley

INVENTOR

Charles H. Coffin
per William Wilson Atty

UNITED STATES PATENT OFFICE.

CHARLES H. COFFIN, OF BOSTON, MASSACHUSETTS, ASSIGNOR OF ONE-THIRD HIS RIGHT TO JAMES W. MORRISON, OF SAME PLACE.

IMPROVEMENT IN INDICATORS FOR RAILROAD CARS.

Specification forming part of Letters Patent No. **139,771**, dated June 10, 1873; application filed April 23, 1873.

To all whom it may concern:

Be it known that I, CHARLES H. COFFIN, of Boston, in the county of Suffolk and State of Massachusetts, have invented a certain new and useful Improved Automatic Street-Indicator for Railroad Cars, &c., of which the following is a specification:

The nature of my invention consists in the peculiar construction and organization of a device for automatically indicating the street or station that a railroad car has arrived at, the exact nature of which may be best understood by reference to the drawing and specification.

Figure 1 is an elevation of an ordinary street-car. Fig. 2 is a vertical section, showing the indicator device. Fig. 3 is an elevation, showing the displaying card or belt.

Let A represent the indicator-case. B and B', Fig. 2, are two drums, about which the show or displaying card C is wound. Upon this card C is written the name of the street, in the case it is used in the horse-car, and of the station, when it is used in a steam-car. The drums B and B' are driven by the gears D D', which, in turn, are driven alternately by the gears E. The gear E has upon its shaft

a pulley, F, which is connected by a belt with the pulley H, the pulley H being driven by the car-axle P, acting through the worm-gears N M and the shaft L. The gear E is so hung that, by moving the lever G by the handle G', Fig. 3, it may mesh with either D or D'. In one case the show-card belt C will run in one direction, and in the other in the opposite direction.

From the above it may be seen that the show-card belt C will move with a proportional velocity in relation to the velocity of the car, so that the name on the belt C will be displayed at proper intervals.

I am aware that similar devices have been used before, and I do not claim the broad invention.

I claim as my invention—

The combination of the worm-gear N M, shaft L, and pulley H with the belt K, shifting-gear E, drums B and B', and show or display belt C, substantially as described, and for the purpose set forth.

CHARLES H. COFFIN.

Witnesses:

FRANK G. PARKER,
JOHN J. HALEY.