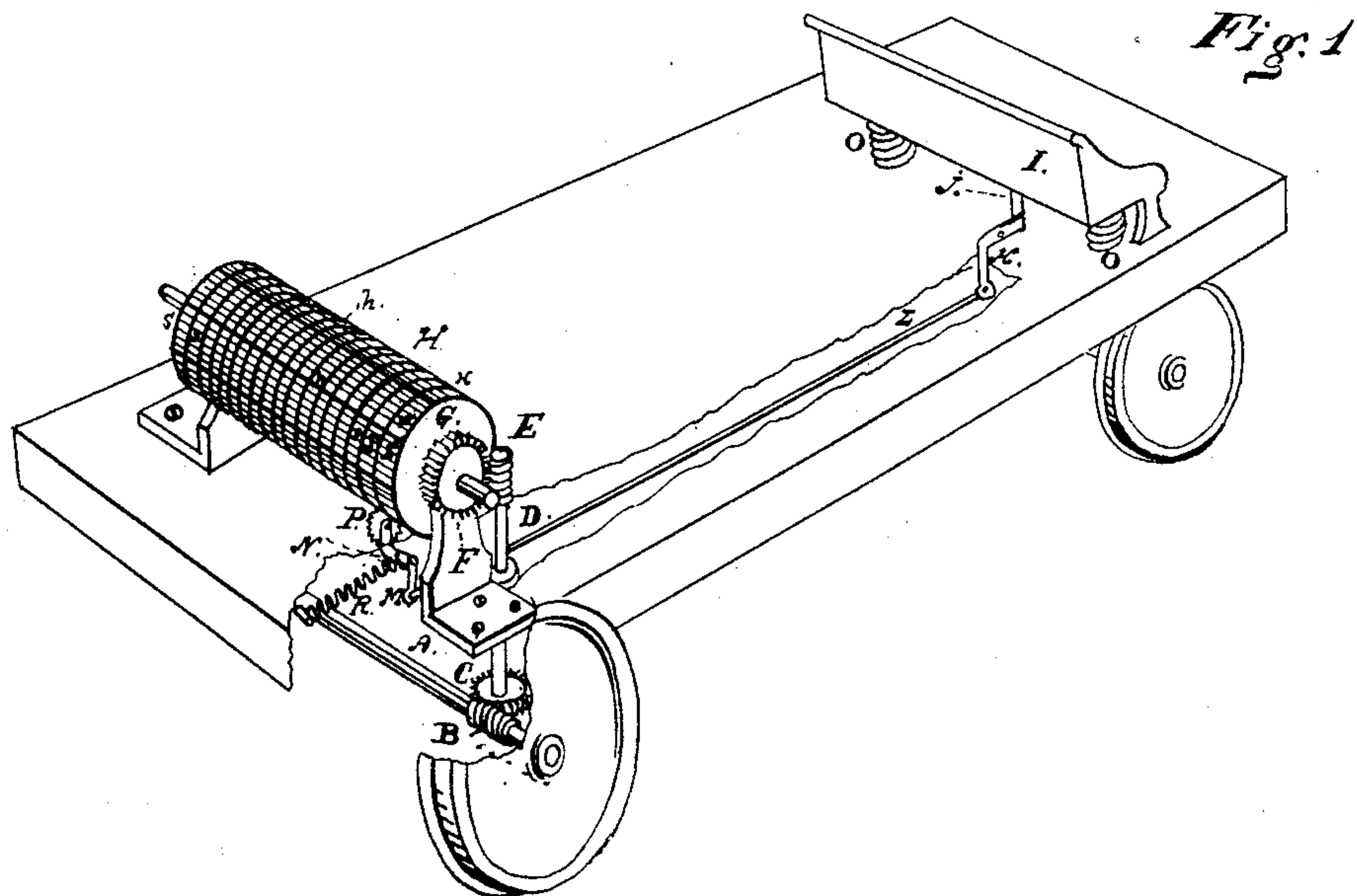


W. B. SYLVESTER.  
Passenger Recorder.

No. 198,434.

Patented Dec. 18, 1877.



WITNESSES:

*H. Shawan*  
*J. B. Knöfler*

INVENTOR:

*Wm B. Sylvester*  
*by Jas. B. Enwin*  
*att'y.*

# UNITED STATES PATENT OFFICE.

WARREN B. SYLVESTER, OF STEVENS POINT, WISCONSIN.

## IMPROVEMENT IN PASSENGER-RECORDERS.

Specification forming part of Letters Patent No. **198,434**, dated December 18, 1877; application filed September 30, 1876.

*To all whom it may concern:*

Be it known that I, WARREN B. SYLVESTER, of Stevens Point, in the county of Portage and State of Wisconsin, have invented certain new and useful Improvements in Registers for Railroad-Cars; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawing, and to letters of reference marked thereon, which form a part of this specification.

The object of my invention is to tally or register the total number of miles and fractions thereof traveled by the passengers on railroad-coaches, or to register the total mileage of travel made by passengers irrespective of their number, by an automatic registering-machine.

My invention consists in certain new and improved devices and combinations of devices by means of which and the weight of the passengers occupying the seat the registration is effected through the revolution of one of the axles and wheels of the conveyance, as hereinafter more fully set forth.

Figure 1 is a perspective view.

A is the car-axle, upon which is a spiral groove or endless screw, B, which acts obliquely upon the teeth of the spur-wheel C, by which motion is communicated through the shaft D to the endless screw E, and from thence to the spur-wheel F, which communicates a slow motion to the cylinder G.

There is a register, H, made of paper or its equivalent, which is temporarily attached to the cylinder G, and upon which the record of the mileage made by the passengers is indicated. The spaces S afford a special register for each seat occupied in the car. The heavy cross-lines *h* may each represent five or ten miles of travel or passenger-stations on the road, and the light cross-lines *k* may represent miles and fractions of miles of travel.

P is a tally-wheel, which is connected with the seat I by means of the supporting-rod J, elbow-crank K, connecting-wire L, elbow-crank M, and rod N.

When the seat I is occupied, the pressure upon it, acting through the connections described, releases the wire L, when the spiral spring R acts upon the lower arm of the elbow-crank N, and the tally-wheel P is thereby brought in contact with the revolving cylinder G, or against the register H, which surrounds it.

There are sharp teeth or their equivalent upon the tally-wheel P, which perforate or mark the register along the column or space S while the seat is occupied, thus indicating by the number of cross-lines *h* and *k* traversed by the tally-wheel P the number of miles traveled.

There are spiral springs O attached to the seat I, which, acting through the connections described, draw the tally-wheel P from the register when the seat is unoccupied.

There is a tally-wheel, P, for each seat in the car, which may be connected with each seat, respectively, in the manner described.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

The combination of axle A, having worm B, shaft D, having pinion C and worm E, and cylinder G, having pinion F and register H, with spring-seat I, rods J and L, crank-levers K and M, spring R, and tally-wheel P, substantially as set forth.

In testimony that I claim the foregoing as my own I affix my signature in presence of two witnesses.

WARREN B. SYLVESTER.

Witnesses:

S. D. PATRICK,  
CHAS. BUCKINGHAM.