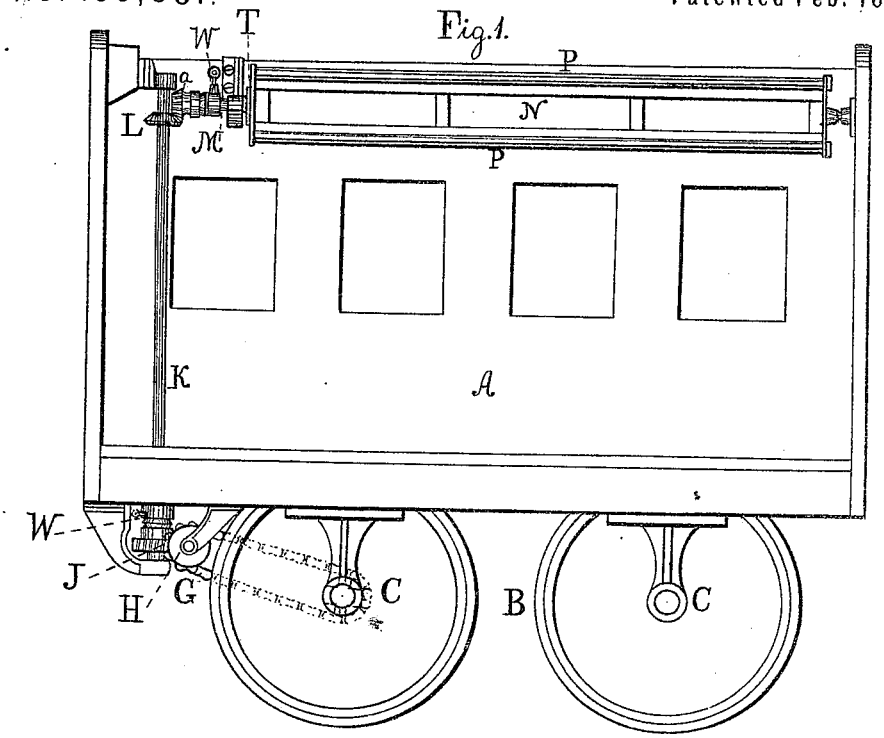
T. E. ALLISON.

Advertising-Apparatus.

No. 159,881. Patented Feb. 16, 1875.

Fig. 1.



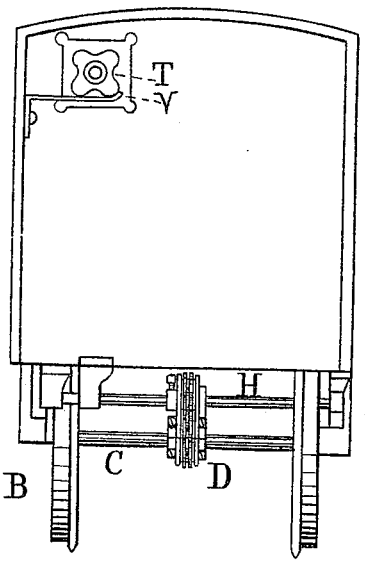


Fig. 2.

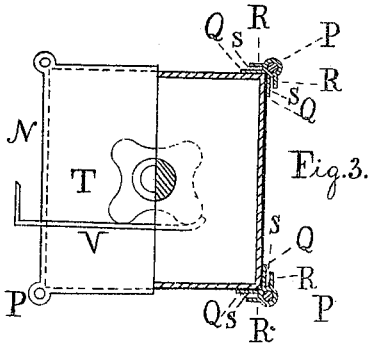


Fig. 3.

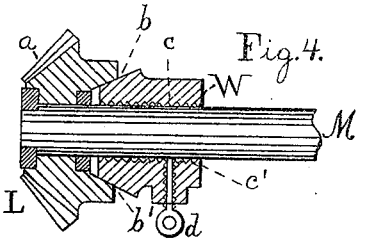
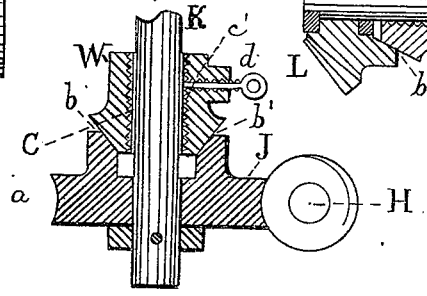


Fig. 4.

Fig. 5.



Witnesses

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UNITED STATES PATENT OFFICE.

T. ELLWOOD ALLISON, OF PHILADELPHIA, PENNSYLVANIA.

IMPROVEMENT IN ADVERTISING APPARATUS.

Specification forming part of Letters Patent No. **159,881**, dated February 16, 1875; application filed April 11, 1874.

To all whom it may concern:

Be it known that I, T. ELLWOOD ALLISON, of the city and county of Philadelphia and State of Pennsylvania, have invented a new and useful Improvement in Advertising Apparatus; and I do hereby declare the following to be a clear and exact description of the nature thereof sufficient to enable others skilled in the art to which my invention appertains to fully understand, make, and use the same, reference being had to the accompanying drawings, making part of this specification, in which—

Figure 1 is a side elevation of the device embodying my invention. Fig. 2 is an end view thereof. Figs. 3, 4, and 5 are views of detached parts.

Similar letters of reference indicate corresponding parts in the several figures.

This invention relates to an advertising apparatus which is applied to a car or other vehicle, and operated by action of the axles thereof. The invention consists in an advertising-frame, arranged horizontally, and having an intermittent motion, whereby the advertisement or a series of advertisements on each face of the frame are successively presented and displayed, and temporarily remaining stationary or at rest, ample time is afforded for inspection thereof, as hereinafter more fully set forth and claimed.

Referring to the drawings, A represents the body of the car or other vehicle; B the wheels, and C the axles, thereof. On one of the axles there is keyed, bolted, or otherwise secured a toothed wheel or pulley, D, around which passes a chain or belt, G, communicating motion to a horizontal shaft, H, which, by means of a worm and worm-wheel or other gearing, J, communicates motion to a vertical shaft, K, which passes through the body of the vehicle; and, by means of gearing L, consisting of one wheel with a single tooth, and the other wheel having a full set of teeth or other obvious mechanical expedient. intermittent motion is communicated to a shaft, M, which is arranged horizontally near the upper end of the vehicle, and connected to the advertising-frame N. The frame N consists of longitudinal pieces or framing, which are braced by rods or bolts P, connected to the heads or ends of the frame, and secured by nuts, screws, or otherwise. The frame may be of angular or circular form, in cross-sections, and to its surface advertisements are to be applied. The corners of the frame are covered and strengthened by angular plates of wood or metal Q, to which are secured or with which are formed projecting pieces R, which, with the plates Q, form grooves S for the reception of the cards or other appliances containing the advertisements. The eyes through which pass the rods or bolts P may be formed with the plates Q and pieces R, and thus the frame will be rendered strong as is necessary, due to the lengthy construction of the same. On one end of the heads of the frame there is secured a toothed disk, T, against which bears a spring, spring-catch, or pawl, V, which is secured to an adjacent portion of the body of the vehicle. There will be as many teeth on the surface of the disk T as there are faces of the frame N, so that when one face of said frame is brought to the front the spring will so engage with the disk that the frame will be held stationary, thus affording time for an ample inspection of the advertisements on the frame. The wheels *a* of the intermittent gearing L and worm-gearing J are fitted loosely on their respective shafts, and are conically depressed or countersunk on their inward faces, as at *b*, and the adjacent portions of the shafts on which said wheels are fitted are screw-threaded, as at *c*. W represents a friction-chuck, which is fitted on the vertical shaft K, and adapted to engage with the wheel of the gearing J, and a similar friction-chuck is fitted on the horizontal shaft M, and adapted to engage with the wheel *a* of the gearing L. The inner face *c'* of each clutch is screw-threaded and fitted on the screw-threads *c* of the respective shafts, and the sides *b'* of the clutches toward the wheels *a* are conically shaped to enter the depressions or countersinks in the wheels *a*. It will be seen that, by rotating the chucks, they are brought in contact with the wheels *a* or disengaged therefrom, and they will remain in whatever position they are placed, but when the cars are in motion subsequent rotation and displacement of the chucks will be prevented by the action of tightening-screws *d* suitably applied.

The operation is as follows: The chucks and wheels being in contact and the cars running, the various shafts and gearing are rotated, and an intermittent motion is imparted to the advertising-frame, so that the whole of each side or face is presented to view, and there is a dwell of the frame, whereby ample time is afforded to inspect the advertisements. In the present case the frame has four faces, and, by means of the intermittent gearing L, the advertising-frame makes a quarter-revolution to every complete revolution of the vertical shaft K. When the advertisements are to be changed, and the car is in motion, the chuck on the shaft M is properly rotated, and thus disengaged from the wheel *a* of the gearing L. For certain reasons, it may be necessary to throw the shaft K out of gear with the axle. In this case the clutch on said shaft is rotated to disengage it from the wheel *a* of the gearing J, and thus the shaft is rendered inoperative.

I am aware that advertising devices have been applied to vehicles and operated by the motion of the wheels thereof; and that endless bands have been employed to carry advertisements, which features are, therefore, not claimed; but

What I do claim as new, and desire to secure by Letters Patent, is—

The horizontal advertising-frame N, carrying the toothed disk T and the spring V, attached to the side of the car, in combination with the shafts K M, with screw-threads *c*, loose wheels *a*, with countersinks *b*, and with the friction-clutches W, having conical sides *b'*, internal threads *c'*, and holding screws *d*, substantially as and for the purpose set forth.

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Witnesses:
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