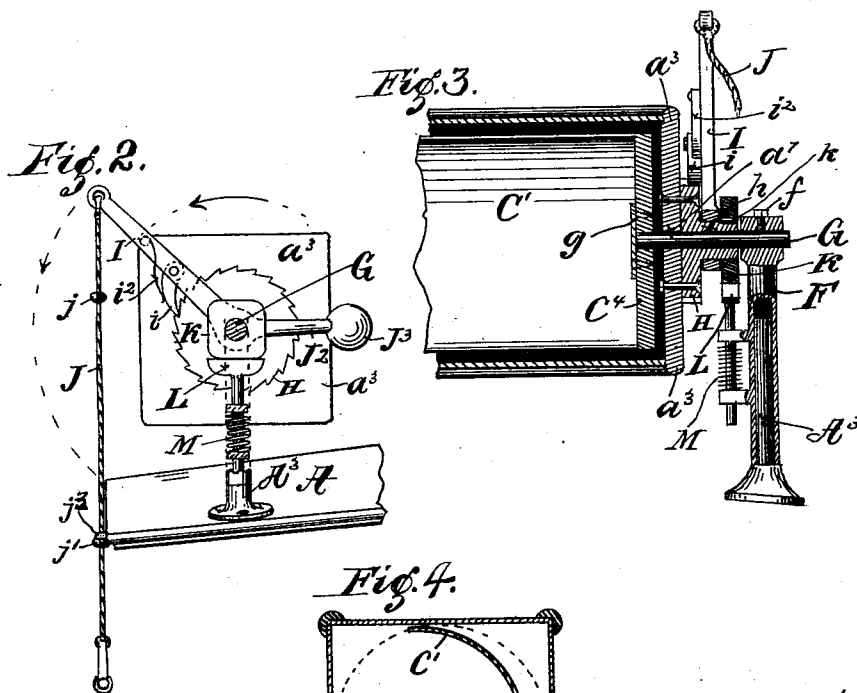


(No Model.)

J. M. ALLISON.
ILLUMINATED STREET CAR SIGN.

No. 532,411.

Patented Jan. 8, 1895.



Witnesses,
T. D. Meany
L. J. Collins

Inventor,
James M. Allison
By Joseph A. Muntz
His Attorney.

UNITED STATES PATENT OFFICE.

JAMES M. ALLISON, OF INDIANAPOLIS, ASSIGNOR OF ONE-FOURTH TO
ANDREW M. BANKS, OF MARION COUNTY, INDIANA.

ILLUMINATED STREET-CAR SIGN.

SPECIFICATION forming part of Letters Patent No. 532,411, dated January 8, 1895.

Application filed July 5, 1894. Serial No. 516,562. (No model.)

To all whom it may concern:

Be it known that I, JAMES M. ALLISON, a citizen of the United States, residing at Indianapolis, in the county of Marion and State of Indiana, have invented certain new and useful Improvements in Illuminated Street-Car Signs; 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 appertains to make and use the same.

This invention relates to improvements in signs to be attached to street cars, preferably by placing the sign upon the roof of the car, and has for its objects, first, the construction of a sign that will indicate the destination of the car and will be plainly legible both day and night, second, that will combine an advertising feature with the designation of the car's route in order that the revenue derived from said advertisement may contribute to the cost of maintenance of the device; third, to provide means whereby a series of different signs may be displayed in succession subject to the easy control of the motorman or person in charge of the car.

I accomplish the objects of the invention by the mechanism illustrated in the accompanying drawings, in which—

Figure 1 is a view in front elevation of my car sign, showing also the adjacent portions of the car, and the mechanism by which the sign is revolved. Fig. 2 is an end view of the same. Fig. 3 is a detail in vertical section of the end of the revolving sign. Fig. 4 is a transverse section through the line *y y* of Fig. 1.

Similar letters refer to like parts throughout the several views of the drawings.

In the said drawings the portions marked A represent the street car, and B the sign secured to the roof of the car. The street car is of any usual or desired construction. The sign will be secured thereon as follows:—Standards A³ are secured to the roof of the car, which engage sockets F, provided at their upper end with transverse openings to receive a shaft G. The shaft G is provided with an integral disk *g*, by which the shaft will be secured to the end plate C¹ of a reflector C' by screws or bolts in the manner shown in Fig.

3. The outer end of the shaft G is projected through the transverse opening in the socket F and is held in a stationary position by the set screw *f*. The opposite end of the reflector is secured to a like standard in a similar manner, except that the shaft will be shorter because of the absence of the mechanism for rotating the signs, which will not be needed on that end. As will be seen on reference to the figures, four signs, forming the four sides of an elongated box, are used, and are provided with the rectangular end pieces *a*³. The end pieces are provided with centrally located openings *a*⁷. The reflector and attached lamps will be placed within the four-sided box or case, and the shafts G projected through the openings *a*⁷ in the ends *a*³. The case will be free to revolve upon the shafts G so that the sign on any one of the four sides may be brought into view at will. In order to control the revolution of the case, and to place the means of control within the reach of the driver or motorman, I provide the mechanism, which I will now describe.

It is a ratchet wheel bolted or otherwise secured to the end *a*³ of the case, and having an outwardly projected hub extension *h*.

I is a lever mounted upon the hub extension *h* of the wheel H, and having movement around said hub. The lever I carries the pawl *i* and the spring *i*², which spring presses the pawl into engagement with the teeth of the ratchet wheel H.

J is a cord fastened to the upper end of the lever I, and extends down within reach of the driver or motorman. The cord is provided with the stops *j* and *j'*, and is projected through an eye *j*³, attached to the car roof, or if desired the cord may be projected through a hole in the roof of said car. The stops *j* and *j'*, serve to regulate the throw or movement of the lever J.

J² is an arm or extension of the lever J, and terminates in the weight J³, by which the lever will be automatically raised after each downward stroke into position ready for a new adjustment of the sign case, which is always made by a downward stroke of the lever. To guard against the accidental shifting of the sign case by the jar of the car, I provide a four-sided disk K, which is caught by the key

It is hereby certified that Letters Patent No. 532,411, granted January 8, 1895, upon the application of James M. Allison, of Indianapolis, Indiana, for an improvement in "Illuminated Street-Car Signs," were erroneously issued to "James M. Allison and Andrew M. Banks, of Marion County, Indiana," as owners of the entire interest in said invention; and that said Letters Patent should have been issued to *said Allison and Andrew M. Banks, Bert L. Madison, and Charles Baker, of Indianapolis, Indiana, said Bert L. Madison and Charles Baker being joint owners with Andrew M. Banks of three-fourths interest* in said invention as shown by assignments of record in this office; and that the said Letters Patent should be read with this correction therein that the same may conform to the record of the case in the Patent Office.

Signed, countersigned, and sealed this 29th day of January, A. D. 1895.

[SEAL.]

JNO. M. REYNOLDS,
Assistant Secretary of the Interior.

Countersigned:

JOHN S. SEYMOUR,
Commissioner of Patents.

It is hereby certified that Letters Patent No. 532,411, granted January 8, 1895, upon the application of James M. Allison, of Indianapolis, Indiana, for an improvement in "Illuminated Street-Car Signs," were erroneously issued to "James M. Allison and Andrew M. Banks, of Marion County, Indiana," as owners of the entire interest in said invention; and that said Letters Patent should have been issued to *said Allison and Andrew M. Banks, Bert L. Madison, and Charles Baker, of Indianapolis, Indiana, said Bert L. Madison and Charles Baker being joint owners with Andrew M. Banks of three-fourths interest* in said invention as shown by assignments of record in this office; and that the said Letters Patent should be read with this correction therein that the same may conform to the record of the case in the Patent Office.

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[SEAL.]

JNO. M. REYNOLDS,
Assistant Secretary of the Interior.

Countersigned:

JOHN S. SRYMOUR,
Commissioner of Patents.