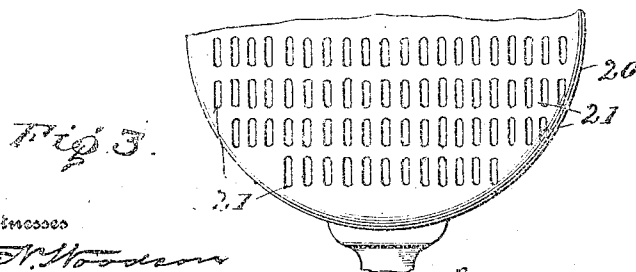
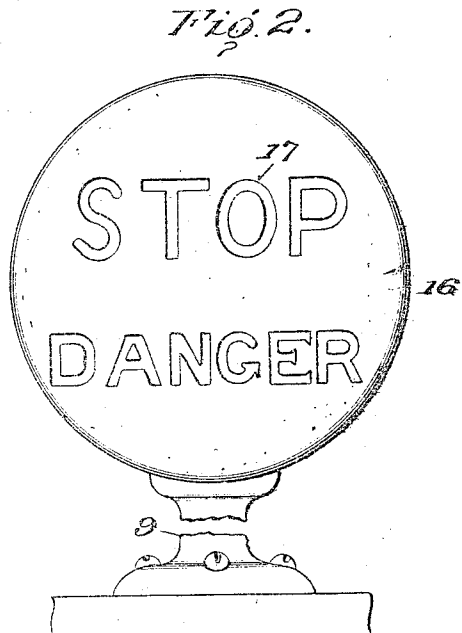
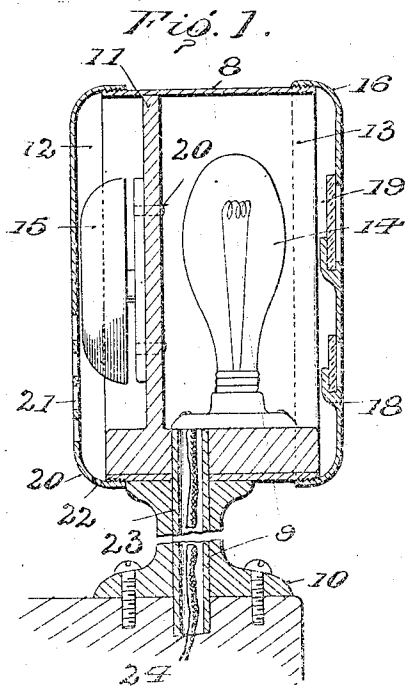


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DANGER SIGNAL FOR ELECTRIC CARS.  
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Patented July 9, 1912.



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# UNITED STATES PATENT OFFICE.

JAMES ANDERSON, JR., OF OMAHA, NEBRASKA.

1.032,102. DANGER-SIGNAL FOR ELECTRIC CARS.

Specification of Letters Patent.

Patented July 9, 1912.

Application filed April 21, 1909. Serial No. 491,217

To all whom it may concern:

Be it known that I, JAMES ANDERSON, JR., citizen of the United States, residing at Omaha, in the county of Douglas and State of Nebraska, have invented certain new and useful Improvements in Danger-Signals for Electric Cars, of which the following is a specification.

This invention relates to signaling devices such as are used on surface cars to warn persons attempting to cross the track at the rear of the car of the approach of another car traveling in a direction opposite to the direction of travel of the first named car, and particularly relates to the detailed construction and arrangement of the signaling device and the casing therefor.

The primary object of my invention is to provide a very simple, durable and efficient signal of the character above described, and particularly to provide a casing for an audible and a visual signal, so constructed as to permit the signals to be easily noted and yet to inclose the signals so that they shall be thoroughly protected from damage.

For a full understanding of the invention and the merits thereof and also to acquire a knowledge of the details of construction and the means for effecting the result, reference is to be had to the following description and accompanying drawings, in which:

Figure 1 is a vertical sectional view of the casing and its associated parts. Fig. 2 is a front elevation of the signal casing. Fig. 3 is a front elevation of the rear part of the casing.

Corresponding and like parts are referred to in the following description and indicated in all the views of the drawings by the same reference characters.

The improved danger signal forming the subject matter of the present invention is principally designed for use on electric cars, such as are employed for surface traffic in cities or for interurban traffic.

The device comprises a casing or housing 8 preferably formed in sections having inter-engaging parts, thereby to permit the same to be readily detached when it is desired to obtain access to the interior of the casing. The casing 8 is disposed at the rear end of the car and is provided with a standard or pedestal 9 having a laterally extended perforated base 10 pierced by one or more screws or similar fastening devices, whereby the casing is retained in position

on the car. Disposed within the casing is a partition 11 defining a plurality of independent compartments 12 and 13, one of which is adapted to contain a visual signal, preferably in the form of an incandescent lamp 14, and the other an audible signal 15.

The front section 16 of the casing is stamped, pressed or otherwise formed with a plurality of letters 17, which are illuminated when the lamp 14 is lighted and thus serve to warn persons attempting to cross the track at the rear of the car, of the approach of another car traveling in the opposite direction.

Extending laterally and upwardly from the inner face of the section 16, are supporting lugs or brackets 18 which serve to clamp and retain a strip of glass, mica, or other transparent material 19 in position at the rear of the letters 17 so that the colored glass will show through the openings 17 in the casing section 16 when the interior of the compartment 13 is illuminated.

The audible signal 15 is preferably in the form of an incased electromagnetically operated bell, the base of which is secured by screws or similar fastening devices 20 to the partition 11, as shown.

The rear section of the casing 8 is formed with a series of perforations 21 to permit a person approaching a car at the rear end thereof to readily hear the alarm when the bell is sounded, there being a drain opening 22 formed in the section 20 at the base thereof to permit the ready discharge of water or other liquid that may find its way through the openings 21 into the compartment 12.

The standard or pedestal 9 is formed with a vertically disposed conduit 23 through which the adjacent terminals 24 of an electrical circuit 25 pass for contact with the binding screws of the lamp 14 and bell 15 respectively, the latter being connected in series so that when the circuit is closed the same will be actuated simultaneously to sound the alarm and display a visual signal at the rear of the car.

Any suitable means may be used for closing the circuit through the lamp and bell actuating mechanism, and as devices of this character are well known, no device for the purpose is illustrated.

It will be understood that preferably there will be one of the casings 8 including both a visual and audible signal at each end

of the car so that no matter in which direction the car may be going, the signal at the rear end of the car may be actuated by the motorman so as to sound an alarm and at the same time display a visual signal in position to be seen by any person attempting to cross the track at the rear of the car.

Any desired combination of letters may be stamped or formed in the front section of the casing for displaying a warning signal, but it is preferred to use the words "Stop Danger" either in combination or singly, as desired.

Having thus described the invention, what is claimed as new is:

A danger signal for cars comprising a substantially cylindrical casing having a base therein, a pedestal connected to said casing and base for mounting the casing upon a car, a transverse partition extending upward from the base and dividing the

casing into a pair of independent compartments facing in opposite directions, said partition forming a supporting means for the cylindrical casing, an electric lamp in one of the compartments, an electric bell in the other compartment and mounted upon the said partition, and removable end pieces having threaded engagement with the ends of the cylindrical casing, the end pieces for the compartment having the electrical lamp therein being formed with a transparent portion, while the opposite end piece is perforated to permit of the ready escape of sound.

In testimony whereof I affix my signature in presence of two witnesses:

JAMES ANDERSON, JR. [L. S.]

Witnesses:

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