

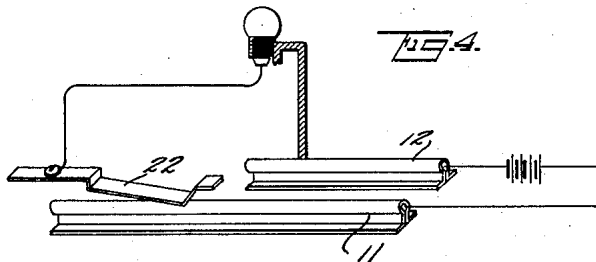
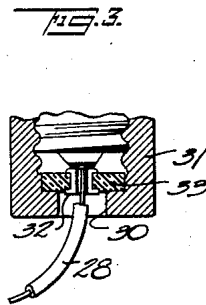
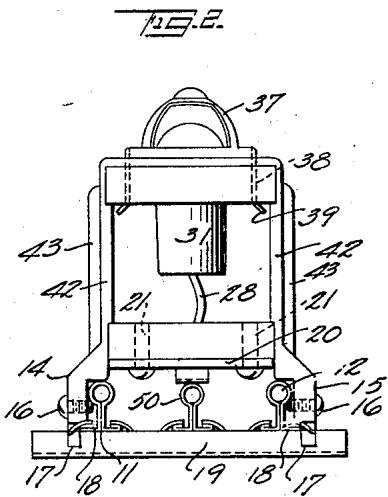
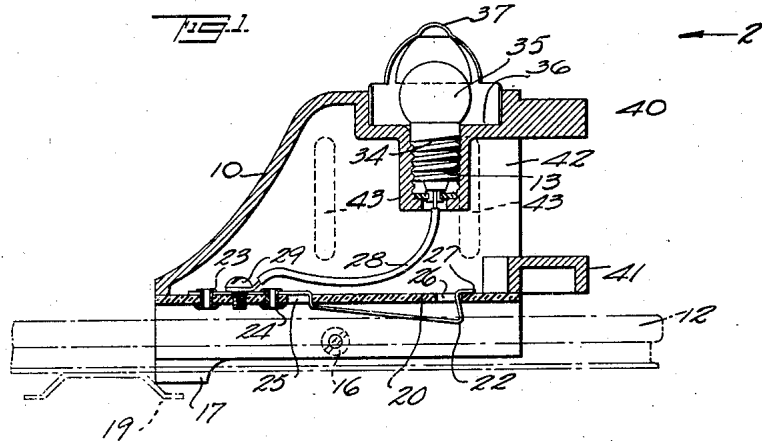
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BUMPER

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# UNITED STATES PATENT OFFICE

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## BUMPER

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The present invention relates to bumpers and is more particularly directed toward the provision of a bumper adapted for use on toy railway outfits.

5 The present invention contemplates the provision of a bumper suitable for toy railways so arranged that the act of placing the bumper on an energized section of toy railroad track will automatically illuminate the bumper.

10 A further object of the present invention is to provide a bumper which can be readily secured to toy railroad track so as to prevent trains on the track running beyond the desired stop.

15 The accompanying drawings show, for purposes of illustrating the present invention, one of the many possible embodiments in which it may take form, it being understood that the drawings are illustrative of the invention rather than limiting the same.

In these drawings:

Figure 1 is a longitudinal sectional view through one form of bumper;

25 Figure 2 is an end view of the bumper taken in the direction of the arrow 2 of Figure 1;

30 Figure 3 is an enlarged sectional view through the lower part of the lamp socket; and

Figure 4 is a diagrammatic view illustrating the wiring.

35 In the form of construction here shown, the bumper includes a body in the form of a die casting 10 adapted to fit on the track rails 11 and 12 of toy railroad track and having provisions for an electric lamp socket 13. The bumper casting 10 has two downwardly extending side flanges 14 and 15 adapted to pass down outside the track rails as indicated, and these side flanges carry screws 16 adapted to be passed under the tread portion of the rail so as to prevent the bumper from being accidentally lifted off the track section.

45 The lower rear corner of the bumper casting 10 has downwardly extending side flanges 17 which are adapted to engage with the base flanges 18 of the track rails and which are adapted to engage with the cross tie 19 to

limit sliding movement of the bumper along the rails thereby making it unnecessary to rely upon the clamping action of the screw 16 which might bend the rails.

55 An insulating plate 20 is mounted inside the bumper by means of screws 21. This insulating plate is carried above the track rails and supports a spring contact member 22. This contact member is secured by means of a pair of hollow rivets 23 and 24 and passes from the upper side of the insulating plate down through a hole 25 and is then bent as indicated so as to pass up through a hole 26 in the insulating plate. The extreme end 27 of the spring contact overlies the upper face of the insulating plate 20. A wire 28 is secured to the contact strip by a screw 29 and the other end of the wire is carried up through a hole 30 in the socket lug 31 of the casting 10 where it is secured to a conducting center contact 32 supported on an insulating disk 33. The socket lug 31 is internally threaded as indicated to receive a lamp base 34 and the lamp bulb 35 is adapted to be disposed in a recess 36 in the upper part of the casting.

75 A cover or shield 37 may also be provided. This shield may be in the form of a sheet metal stamping of the desired shape and having downwardly extending prongs 38 adapted to pass through slots in the bumper casting 10 and to be bent outwardly as indicated at 39 to secure the shield in place. The bumper may also be provided with forwardly extending bump receiving lugs 40 and 41 against which the end of a car or locomotive may be brought. These lugs are spaced apart so that the car coupling device may pass in between them thereby preventing injury to the coupler.

85 The bumper may have any ornamental shape desired and the present form is indicated as having a sloping rear wall and side walls 42 which may be provided with ornamental ribs 43. When the bumper is placed on the track as indicated in the drawings, the spring contact 22 will be brought down on top of the center or third rail 50 thereby connecting the lamp circuit and causing the bumper to be illuminated at any time that the

track is energized. When the bumper is removed from the track, the overhanging extension 27 on the contact strip holds the strip in place.

5 It is obvious that the invention may be embodied in many forms and constructions, and I wish it to be understood that the particular form shown is but one of the many forms. Various modifications and changes being possible, I do not limit myself in any way with respect thereto.

I claim:

1. A bumper for toy railroads comprising a conducting body adapted to rest on the track rails of toy railroad track, an insulated contact supported from the body in a position to contact with a center or third rail, a lamp socket having one side grounded to the conducting body, and an insulated center contact connected with the first mentioned contact.

2. A bumper for toy railroads comprising a conducting body adapted to rest on the track rails of toy railroad track, an insulating plate carried by the body above the track rails, an insulated contact supported from the plate in a position to contact with a center or third rail, a lamp socket having one side grounded to the conducting body, and an insulated center contact connected with the first mentioned contact.

3. A bumper for toy railroads comprising a conducting body having side flanges adapted to embrace the treads of the track rails of toy railroad track, an insulated contact supported from the body in a position to contact with a center or third rail, a lamp socket having one side grounded to the conducting body, and an insulated center contact connected with the first mentioned contact.

4. A bumper for toy railroads comprising a conducting body having side flanges adapted to embrace the treads of the track rails of toy railroad track and downwardly extending abutments adapted to engage a cross tie to limit sliding of the bumper on the rails, an insulated contact supported from the body in a position to contact with a center or third rail, a lamp socket having one side grounded to the conducting body, and an insulated center contact connected with the first mentioned contact.

5. An accessory for toy railroads, comprising a conducting body adapted to rest on the track rails of toy railroad track, an insulating plate carried by the body above the rails, and a centrally located spring contact carried by the plate and projecting downwardly to engage a center or third rail.

6. In a bumper for toy railroads, a body having side flanges adapted to pass down outside the track rails of a toy railroad, side walls extending upwardly above the rails, forwardly extending bump receiving por-

tions, a rear wall and a perforate top wall adapted to receive an electric lamp.

7. In a bumper for toy railroads, a body having side flanges adapted to pass down outside the track rails of a toy railroad, side walls extending upwardly above the rails, forwardly extending bump receiving portions, a rear wall and a top wall having a socket forming projection internally threaded to receive an electric lamp, a center insulated contact carried by the base of said projection, an insulated contact carried by the body member in a position to engage a center or third rail, and a conductor connecting said contacts.

Signed at Irvington, in the county of Essex and State of New Jersey, this 11th day of January, 1929.

LOUIS CARUSO.