

W. T. THORNLEY.
CAR DOOR HANGER.
APPLICATION FILED SEPT. 9, 1910.

984,170.

Patented Feb. 14, 1911.

Fig. 1.

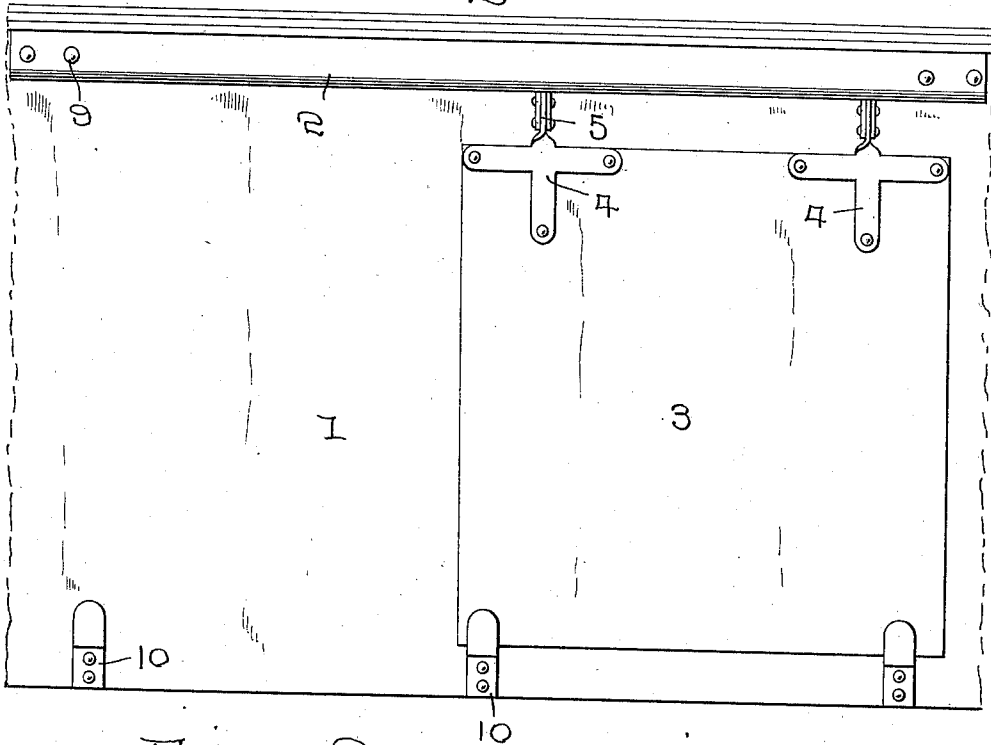


Fig. 2.

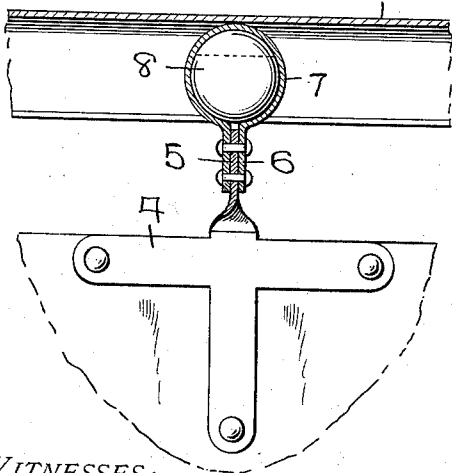
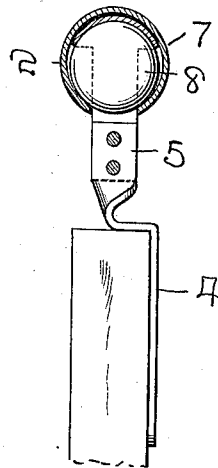


Fig. 3.



WITNESSES:

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CAR-DOOR HANGER.

984,170.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, WILLIAM T. THORNLEY, a citizen of the United States, residing at Anderson, in the county of Madison and State of Indiana, have invented certain new and useful Improvements in Car-Door Hangers; 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 certain new and useful improvements in car door hangers, the object being to provide a hanger which is so constructed that the door will be supported in such a manner as to be moved freely.

Another object of my invention is to provide a hanger with balls adapted to travel in a tubular track in which they are inclosed, in such a manner that they will be held firmly so that all danger of the hangers becoming detached from the track is prevented.

A still further object of my invention is to provide a track having stops arranged at its ends for limiting the movement of the balls within the same, whereby said balls will be locked within the tubular track so that it will be impossible for the same to become detached.

With these objects in view, the invention consists in the novel features of construction, combination and arrangement of parts hereinafter fully described and pointed out in the claims.

In the drawing forming a part of this specification, Figure 1 is a side elevation of my improved car door hanger showing the application of the same. Fig. 2 is a longitudinal detail vertical section through the track and hanger, and, Fig. 3 is a transverse section of the same.

Referring to the drawing, 1 indicates a car which is provided with the usual door opening, over which is arranged a tubular track 2 which is provided with a longitudinal slot in its under side, and is supported on the car by any suitable means. The door 3 is provided with hangers 4 at its upper end which are provided with upwardly projecting twisted arms 5, over which are se-

cured the arm portions 6 of the cap members 7 in which are mounted balls 8 of such a size that they will fit snugly within the track in such a manner that the same can travel freely therein in order to support the door so that the same will slide freely.

The ends of the tracks may be closed by suitable stops, not shown, which are secured in position by bolts 9 which can be used for supporting the track if desired, and it will be noted that these stops would limit the movement of the balls within the track in such a manner that after the balls have been placed within the same, it will be impossible for the balls to be detached without removing the stops. It will also be seen that the hangers carrying the cap members are so constructed that an exceedingly strong and durable hanger is formed, whereby the balls will be supported within said cap members so as to prevent the balls from becoming detached. The cap portions 7 are annularly bent so as to conform to the curvature of the balls in order to hold the balls therein.

Suitable angular guides 10 are secured to the car below the door opening, and to one side for guiding the door and holding the same close against the car.

What I claim is:—

1. The combination with a longitudinally split tubular track, of balls mounted in said track, caps fitting over said balls and curved to conform to the outline thereof, and hangers connected to said caps.

2. In a car door hanger, the combination with a car and a longitudinally split tubular track secured thereto; of balls mounted in said track, cap members fitting over said balls and curved to conform to the outline thereof, said cap members being provided with depending arms, a door, and hangers secured to said door provided with arms secured between the depending arms of said cap members.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

WILLIAM T. THORNLEY.

Witnesses:

JOHN H. CAVE,
GEORGE W. HEATH.