

ST. CLAIR PARRY & T. H. PARRY.

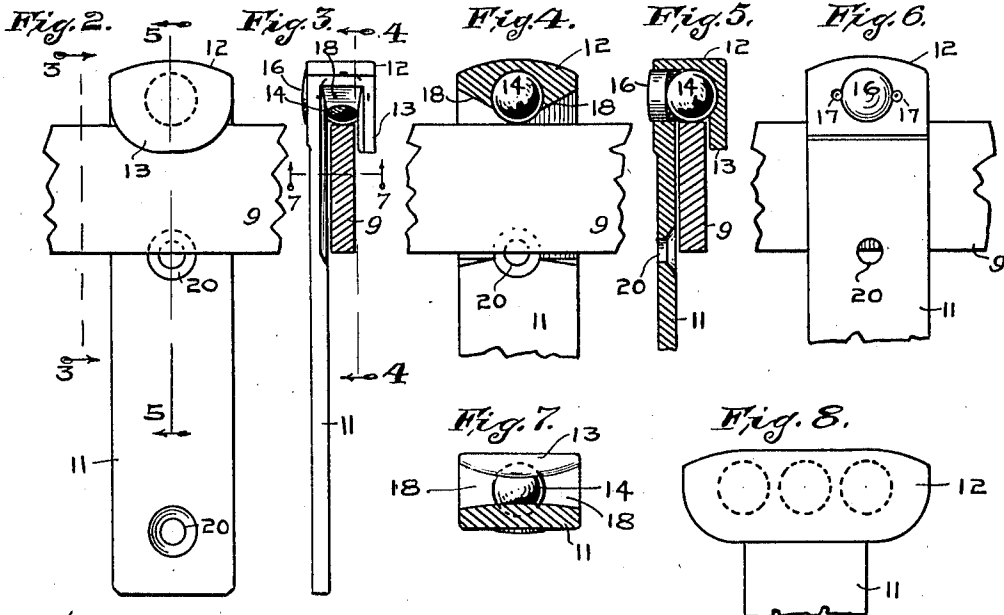
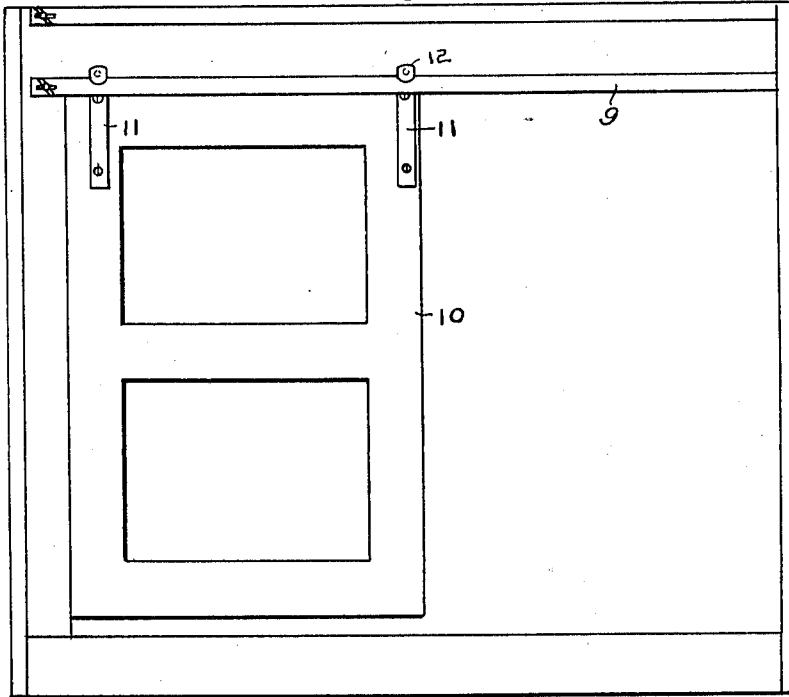
DOOR HANGER.

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1,020,776.

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Fig. 1.



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UNITED STATES PATENT OFFICE.

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DOOR-HANGER.

1,020,776.

Specification of Letters Patent.

Patented Mar. 19, 1912.

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To all whom it may concern:

Be it known that we, ST. CLAIR PARRY and THOMAS H. PARRY, citizens of the United States, residing at Indianapolis, in the county of Marion and State of Indiana, have invented certain new and useful Improvements in Door-Hangers, of which the following is a specification.

This invention relates to improvements in hangers for sliding-doors, and is intended particularly for sliding-doors in vehicle-bodies which are suspended from the tops of tracks having flat sides, and the object of the invention is to provide a hanger with a ball-bearing to support the weight of a door upon the track, and to provide a ball-bearing which will be efficient and durable, and which will not materially increase the size of the hanger, or add to the cost of the manufacture of same.

We accomplish the objects of our invention by the mechanism illustrated in the accompanying drawing, in which—

Figure 1 is an interior side elevation of a vehicle-body having doors slidingly suspended from a track by the aid of our improved hangers. Fig. 2 is a like view of one of the hangers shown in Fig. 1, on a larger scale. Fig. 3 is an edge view of the hanger showing the track in vertical cross section on the line 3—3 of Fig. 2. Fig. 4 is a section on the line 4—4 of Fig. 3. Fig. 5 is a section on the line 5—5 of Fig. 2. Fig. 6 is a view in side elevation of the opposite side of the hanger as shown in Fig. 2. Fig. 7 is a section on the line 7—7 of Fig. 3 with the track removed, and Fig. 8 is a view in side elevation of a modified form of hanger with an enlarged head in which three balls are mounted.

Like characters of reference indicate like parts throughout the several views of the drawing.

9 is a track, preferably of strap-iron, which is suitably supported by attachment to the sides of a vehicle-top, or to any desired compartment having an opening to be closed by a sliding-door.

10 is the door of any usual and suitable construction and 11 are the stems of a pair of our improved hangers by the aid of which the door is suspended from the track 9.

Formed on the upper end of the stem 11 is a head 12 which extends laterally of the

stem across the track 9 and terminates with a depending flange 13 which extends sufficiently far on the other side of the track 9 from stem 11 to form a channel to receive the track 9 without danger of the displacement of the hanger from the track during the opening and closing of the door.

Formed in the head 12 is a socket in which a ball-bearing 14 is mounted, the socket being located so far from the bottom of the head that less than a hemispherical portion of the ball projects below the head, and by contacting with the track when the hanger is on the track reduces the sliding friction between the track and hanger.

We form the socket in the head 12 by drilling a hole into it from one of its faces nearly, but not quite through the head, into which the ball is deposited, and its removal is prevented by closing the mouth of the hole with a metal disk or plug 16. This plug will preferably be punched out of sheet metal of sufficient thickness, and will be dished outwardly or made concave on its side next to the ball and will be of a size to make a tight driving fit in the hole. It will be driven in the hole a suitable distance as shown, so as to contact loosely with, but not to bind the ball in the head, and the plug will then be locked against accidental removal by battering the edge of the metal around the hole over upon the plug by the aid of a punch or other suitable tool as shown by the punch marks 17 in Fig. 6.

The underside of the head 12 will slope upwardly and outwardly from the ball, to avoid any possibility of contact between the head and track 9 should one edge of the door 10 be lifted abnormally high in moving it. This sloping or beveled construction is shown at 18.

To prevent contact between the adjacent corners of the stem 11 and also of the flange 13, said corners on both stem and flange will be retired in the manner shown in Fig. 7, producing a slope or bevel from both vertical edges of stem and flange to a medial line in each.

Holes 20, suitably countersunk, will be formed through the stem 11 for the passage of screws, bolts or the like for securing the hangers to the door.

In the modification shown in Fig. 8, the head of the hanger is extended on both sides of the stem to provide room for two addi-

tional bearing-balls, which are shown by dotted lines in the drawing. These balls may be inserted in individual holes formed in the manner above described, or a single
5 hole may be drilled in from one end of the head forming a channel in which the three balls are deposited.

Having thus fully described our invention what we claim as new and wish to secure
10 by Letters Patent of the United States, is—

1. In a door-hanger, a stem, a head on said stem having a hole, a bearing-ball in said hole partially projecting below the head, and a plug closing the hole to retain
15 the ball.

2. In a door-hanger, a head having a lower face beveled toward a medial transverse line, an integral stem on one side of

the head and a flange on the other side, both flange and stem having their adjacent 20 faces beveled toward a medial vertical line, said head having a hole transversely of the head and partly below the medial line of the bevel of its lower face and extending nearly through the head, a bearing-ball in 25 the hole and a plug closing the hole to retain the ball.

In witness whereof, we have hereunto set our hands and seals at Indianapolis, Indiana, this nineteenth day of January, A. D. 30 one thousand nine hundred and twelve.

ST. CLAIR PARRY. [L. S.]

THOMAS H. PARRY. [L. S.]

Witnesses:

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Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."