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D. E. WILLARD

WATERSHED TRACK FOR DOOR HANGERS

Filed Nov. 17, 1923

Fig. 1.

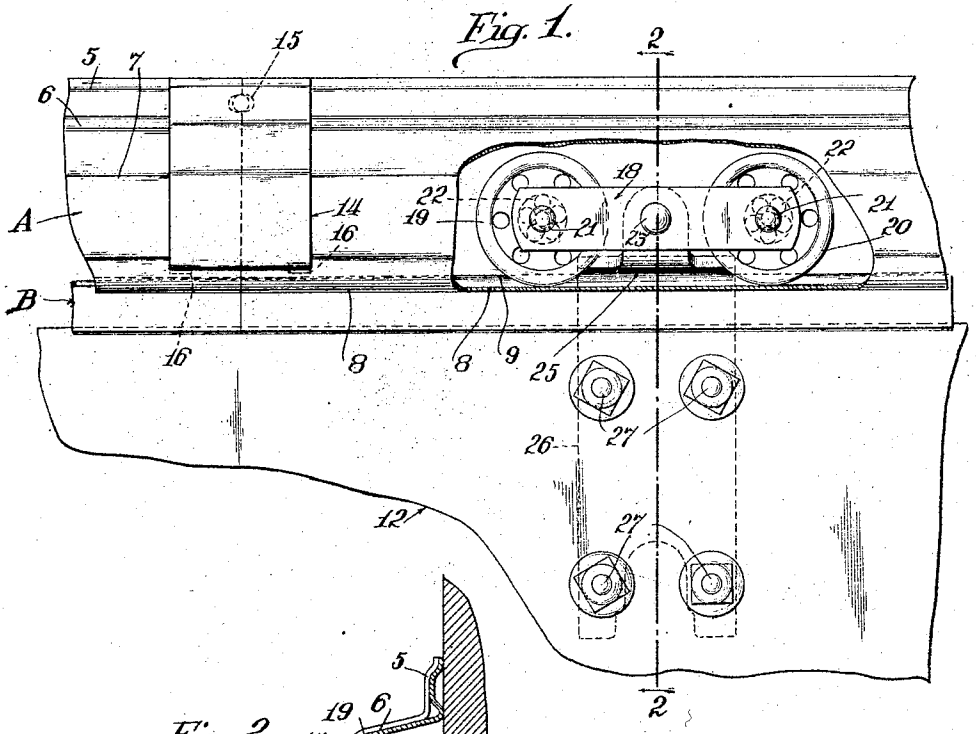
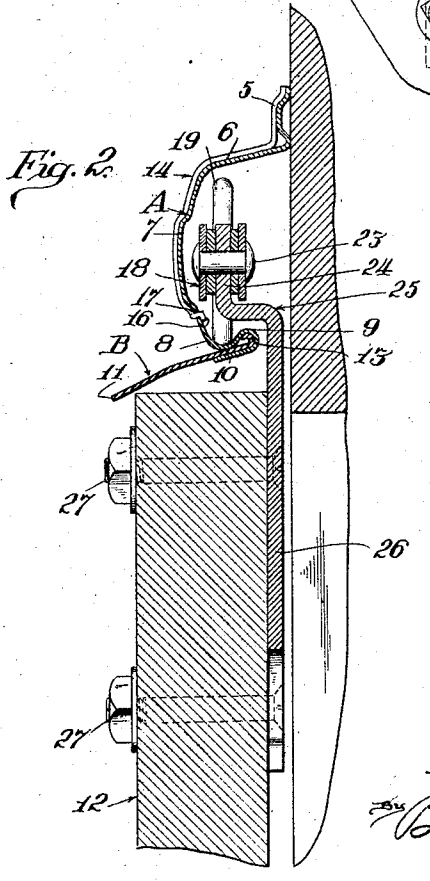


Fig. 2.



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UNITED STATES PATENT OFFICE.

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WATERSHED TRACK FOR DOOR HANGERS.

Application filed November 17, 1923. Serial No. 675,332.

To all whom it may concern:

Be it known that I, DONALD E. WILLARD, a citizen of the United States, residing at Danville, in the county of Vermilion and State of Illinois, have invented certain new and useful Improvements in Watershed Tracks for Door Hangers, of which the following is a specification.

My invention relates to water shed tracks for door hangers and consists of a track member made from sheet metal suitably formed to provide an attaching means, a housing for the hanger, a trackway for the hanger and means for attaching the water shed member thereto; and a separate water shed member also made of sheet metal adapted to be associated with the track member in a manner to prevent relative movement between these parts.

An object of my invention is to provide a water shed track for door hangers fashioned from sheet metal and comprising two coextensive members, one serving as a track member and the other as a water shed member and assembling these members in clamping relation as to prevent relative movement between the same, without the use of bolts, rivets or similar means.

Another object of my invention is to provide a water shed track of sheet metal which is inexpensive to manufacture, easy to assemble and install.

A further object of the invention is to provide a water shed track having a track member and a water shed member, each fashioned from sheet metal and immovably associated by clamping certain portions of each when assembled and which members may be made in selected lengths whereby several lengths may be applied to a building for supplying a trackway of any desired length.

The above recited and other objects of the invention will be apparent from the following description and drawings and will be particularly pointed out in the appended claims.

In the drawings:

Fig. 1 is a partial elevational view, with parts broken away, showing the preferred embodiment of the invention;

Fig. 2 is a vertical section taken on line 2—2 of Fig. 1.

The track of my invention includes two members which I have designated the track member A, and the water shed member B. The track member A is fashioned or formed from a strip of sheet metal bent in such a manner as to provide an attaching margin 5 provided at suitable intervals with openings for the reception of lag screws or other attaching means not shown. Extending outwardly from the attaching portion 5 is a top or cover portion 6 adapted to overlie the hanger C. The intermediate portion 7 is substantially vertical and forms a housing for the hanger C. The lower portion of the track member is bent inwardly providing the trough-like trackway 8 on which the rollers of the hanger C move. This member is then bent upwardly as at 9, downwardly and outwardly, forming a pocket. The lower edge of the track member which is thus formed as an outwardly extending shoulder 10 is, as will be observed from the drawings, directed outwardly.

The water shed member B is fashioned from sheet metal and comprising a strip 11 of suitable width to overlie the upper edge of the door 12 with the inner edge of the water shed member inturned as at 13 forming a bead.

The track members A and the water shed member B are made in selected lengths and the water shed member B is applied by driving the same into the recess of the track member A from the end thereof. The parts are so arranged that the fit will be a clamping or driving fit and the shoulder 10 of the track member is so disposed as to press the water shed member against the under side of the trough-like trackway 8 of the track member. In this manner the water shed member B is held in position by friction and is prevented from movement relatively to the track member by friction and also by reason of the arrangement of the parts as just described.

In Fig. 1 of the drawings, two sections of track are shown disposed in endwise relation to form a trackway. Overlying the meeting ends of the track members is a bracket 14 shaped to conform to the contour of the track member A and is provided with an opening 15 through which a lag screw or similar attaching member may be passed for securing the bracket and track portions to the doorway. It will be observed that at the lower end of the bracket there are formed two projections 16 which extend through

suitably disposed openings 17 in the track member A, the purpose of this construction being to aid in retaining the meeting ends of the track sections in position. Furthermore such construction provides a rigid joint and prevents displacement of the meeting ends of the track members.

In the drawings I have shown a door hanger comprising a truck 18 having rollers 19 and 20 at each end thereof. These rollers are carried on suitable axles 21, journaled in bearings 22, suitably provided in the truck 18. Secured to the truck 18 intermediate the rollers 19 and 20 by means of a pivot 23 is a depending member 24 suitably bent at 25 to escape contact with the trackway and also to register with the inner face of the door 12. In the present instance I have shown this depending member as comprising a plate 26 secured to the door 12 by means of bolts 27 which plate is attached to the inner face of the door. It will be noted that the portion 24 of the pendant is narrower than that portion which is attached to the door. This is to permit swinging of the door on the pivot member 23 or to permit pivotal movement of the truck 18 on such pivot as the door is moved along the track.

The width of the water shed member B is sufficient to extend beyond the outer surface of the door 12 as shown in Fig. 2 of the drawings. The parts are arranged so that a sufficient amount of clearance may be had between the water shed B and the outer edge of the door. This may be accomplished by properly positioning the hanger on the door 12.

By fashioning the track member with a trough-like trackway and then bending upwardly, downwardly and outwardly the lower edge thereof, a track of sufficient strength is secured. I prefer to make the track member A and the water shed member B of relatively thin metal and by bending the same as shown in the drawings, I secure a sufficiently rigid trackway and water shed for all purposes of use.

While I have described more or less precisely the details of construction of my invention, I do not wish to be understood as limiting myself thereto, as I contemplate changes in form and the proportion of parts and substitution of equivalents as circumstances may suggest or render expedient without departing from the spirit of my invention.

I claim:

1. In a door hanger track, the combination of a housing provided adjacent its lower edge with a trough-like track, and a water shed having its upper edge bent to engage said housing and to be retained therein by clamping.

2. In a door hanger track, the combination of a housing provided adjacent its lower edge with a trough-like track and a downwardly and outwardly extending shoulder defining a recess, and a water shed element having its upper edge bent to enter said recess and to be frictionally retained therein by pressure of said shoulder against said member.

3. A water shed track for door hangers, comprising in combination, a track member formed of sheet metal and fashioned to provide an attaching portion, a housing portion, a trough-like track, and with its lower edge bent upwardly, downwardly and outwardly, defining a recess along the under side of said track member; and a water shed member inserted in said recess through one end thereof and frictionally retained therein.

4. A water shed track of the class described, comprising two coextensive members each formed from strip metal, one of said members having a portion bent to define a recess for the reception of the other, and disposed so that one of said members extends outwardly from the other.

5. A track for door hangers comprising a sheet metal track member formed with a trough therein for the reception of a hanger roller, and a water shed formed as another member and held in said track member by friction.

6. A track for door hangers having a track member fashioned with a trough formed integrally therein for the reception of a hanger roller, and a water shed formed as another member and held against movement in said track member by friction, said latter member having a driving fit with the track member.

7. In a door hanger, in combination, a track member formed of strip metal and fashioned to provide an attaching portion, a housing for the hanger, a trough-like trackway, and a recess lengthwise of said track member underneath said trackway; and a water shed member having a driving fit with said recess.

8. A door hanger track formed from a single strip of metal with the lower edge bent inwardly, then upwardly, defining a troughway for the hanger roller, and then bent downwardly and outwardly, the latter bends defining a bead with an opening below and along the track; and a water shed element formed from another strip of metal having a bead along an edge thereof adapted to be received in said first bead, and being held against movement with respect to said track member by a pinching action of the edge of said first bead against said shed member where the same emerges therefrom.

9. A trolley track member having a recess formed therein lengthwise thereof, providing a pocket, a water shed member having a bead for entering said recess and conform-

ing to a portion thereof, the parts being of such size that pressure is required to force the bead of the water shed member into the pocket to arrange said members in operative relation.

10. A two-part door hanger track, each part formed from sheet metal, said parts being associated together in operative relation by interfitting engagement of the parts thereby eliminating bolts and the like, one of said parts being fashioned as a wheel supporting or track member and the other as the water shed member, one of said parts having a longitudinally extended laterally open groove and the other member having a bead adapted to enter the said groove by being applied to one end thereof, and driven into position, said parts being arranged so that the water shed member may project outwardly from said track member.

11. A two-part door hanger track, each part formed from sheet metal and associated together in operative relation by interfitting engagement of the parts thereby eliminating bolts and the like, the track member being formed with a wheel supporting portion and also with a longitudinally extending laterally open groove and the water shed member being formed with a bead adapted to enter said groove at one end thereof and be driven into position, said water shed member being adapted when in position to project outwardly from said track member for overlying the supported door.

DONALD E. WILLARD.