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G. J. HAENNI.

COMBINED DOOR HANGER AND TRACK.

APPLICATION FILED OCT. 12, 1904.

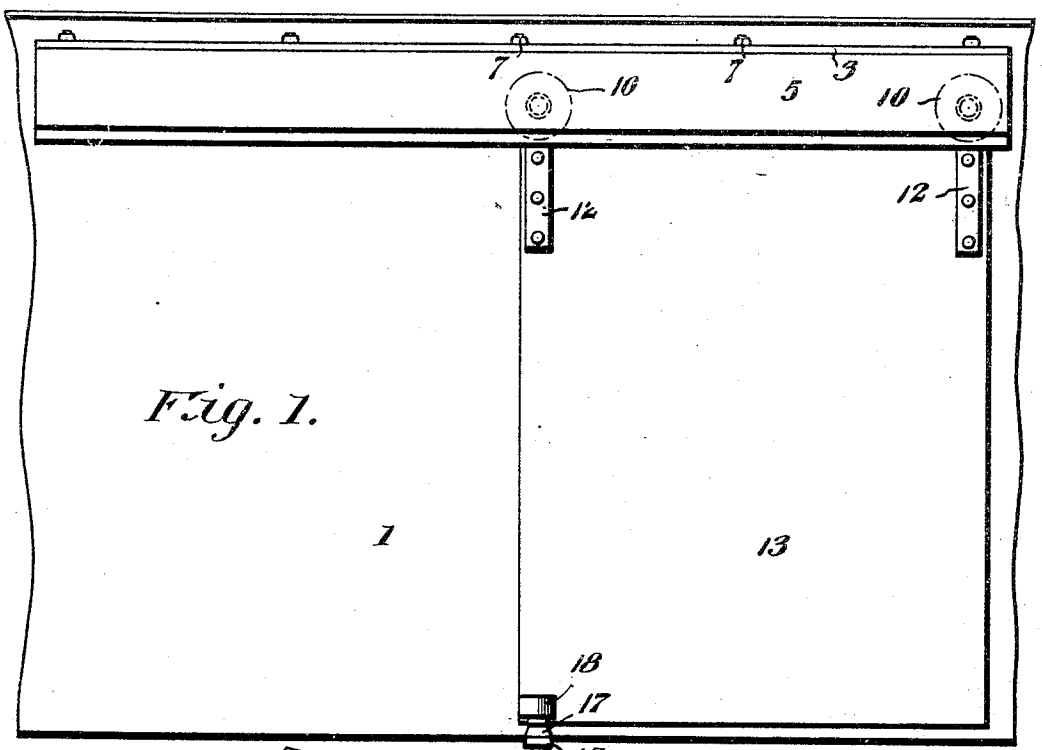



Fig. 1.

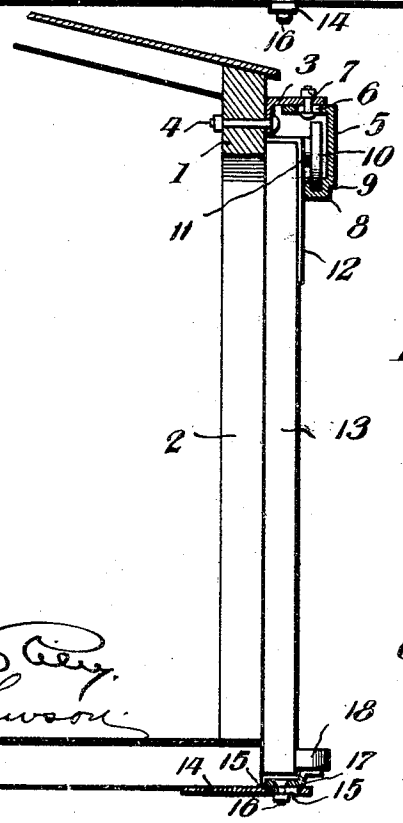



Fig. 2.

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No. 791,899. Patented June 6, 1905.

# UNITED STATES PATENT OFFICE.

GODFREY J. HAENNI, OF ST. LOUIS, MISSOURI.

## COMBINED DOOR HANGER AND TRACK.

SPECIFICATION forming part of Letters Patent No. 791,899, dated June 6, 1905.

Application filed October 12, 1904. Serial No. 228,226.

*To all whom it may concern:*

Be it known that I, GODFREY J. HAENNI, a citizen of the United States, residing at St. Louis, in the State of Missouri, have invented new and useful Improvements in a Combined Door Hanger and Track, of which the following is a specification.

My invention relates to sliding doors, and more particularly to hangers for holding them in proper position upon a door-frame.

The object of the invention is to provide a track of peculiar form which serves to protect the sheaves of the door from the elements and which also holds the door always at its proper angle whether or not the same is subjected to upward or downward pressure.

Another object is to employ a track which is adjustable for use upon doors of different thicknesses.

With the above and other objects in view the invention consists of a track formed of a projecting ledge, to which is adjustably secured a longitudinally-extending angle-iron which depends therefrom and has an inwardly-extending flange which is grooved longitudinally for the reception of sheaves secured to a door adjacent its upper edge. This inwardly-extending flange overlaps the upper portion of the door and forms a complete protection for the sheaves against the elements. A suitable retaining device is employed for holding the lower edge of the door in proper relation to the structure in which the door-opening is located.

The invention also consists in the further novel construction and combination of parts hereinafter more fully described, and pointed out in the claims.

In the accompanying drawings I have shown the preferred form of my invention.

In said drawings, Figure 1 is a front elevation of a door mounted in accordance with my invention, and Fig. 2 is a transverse section through the track and showing the door in end elevation.

Referring to the figures by numerals of reference, 1 is a structure in which is arranged a door-opening 2, and located above this opening and extending to one side thereof is an angle-iron 3, which is secured to the structure 1 by means of bolts 4 or in any other suitable manner and forms a ledge. Another angle-iron or strip 5 is secured to the under surface of and depends from this ledge and has a series of slots 6 therein, which receive bolts 7 or similar securing devices secured to the angle-iron 3. The depending angle-iron 5 has an inwardly-extending flange 8 at its lower edge, provided with a longitudinally-extending groove 9 in its upper face. Mounted within this groove are sheaves 10, which are mounted on studs 11, extending laterally from straps 12. These straps are secured to the upper portion of a door 13, and the upper edge of this door travels between the structure 1 and the flange 8. The distance between the highest points on the peripheries of sheaves 10 and the upper portion of the iron 5 is very slight, so that the door is held at all times in its proper position whether or not the same is subjected to the upward or downward pressure. Extending from the bottom of the structure 1 and under the door 13 is a strip 14, having a slot 15 therein, through which extends a bolt 16 or other securing device. This device extends from a block 17, which is arranged under the door 13, and has a roller 18 journaled upon it and contacting with the outer face of the door.

It will be seen that the flange 8 extends close to the door 13, and therefore the sheaves 10 are at all times protected from the elements and the device rendered more lasting. By providing the slots 6 the distance between the flange 8 and the structure 1 can be increased or diminished, so as to adapt the track for use in connection with doors of different thicknesses. This adjustment is also permitted in connection with the roller 18 in view of the fact that a slot 15 is formed in strip 14. While I have shown the track formed in two pieces which are adjustable, it will of course be understood that it may be formed in a single piece where a heavy door is to be suspended from it. This track can be secured to a door-casing very readily and does not detract from its appearance, for the reason that only smooth surfaces are presented to the eye and all working parts are concealed. By reason of the peculiar construction of the track the parts can

be placed in positions the reverse to those shown in the drawings and will operate equally as well.

In the foregoing description I have shown the preferred form of my invention; but I do not limit myself thereto, as I am aware that modifications may be made therein without departing from the spirit or sacrificing any of the advantages thereof, and I therefore reserve the right to make such changes as fairly fall within the scope of my invention.

Having thus fully described the invention, what is claimed as new is—

1. The combination with a structure having a ledge extending therefrom; of an angle-iron adjustably connected to and depending from the ledge, an inwardly-extending flange upon the angle-iron, a door having one edge interposed between the structure and the flange, and sheaves journaled adjacent said edge and inclosed by the ledge and angle-iron, said sheaves bearing upon the flange.

2. A track for sliding doors, comprising a ledge, an angle-iron adjustably secured thereto and extending longitudinally thereof, and an inwardly-extending flange integral with the angle-iron, and arranged longitudinally thereon.

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

GODFREY J. HAENNI.

Witnesses:

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OTTO C. HAENNI.