

(No Model.)

W. KEES.  
DOOR HANGER.

No. 504,591.

Patented Sept. 5, 1893.

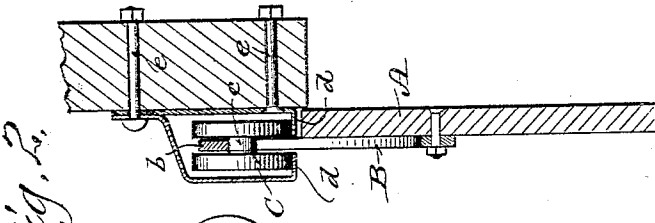


Fig. 2.

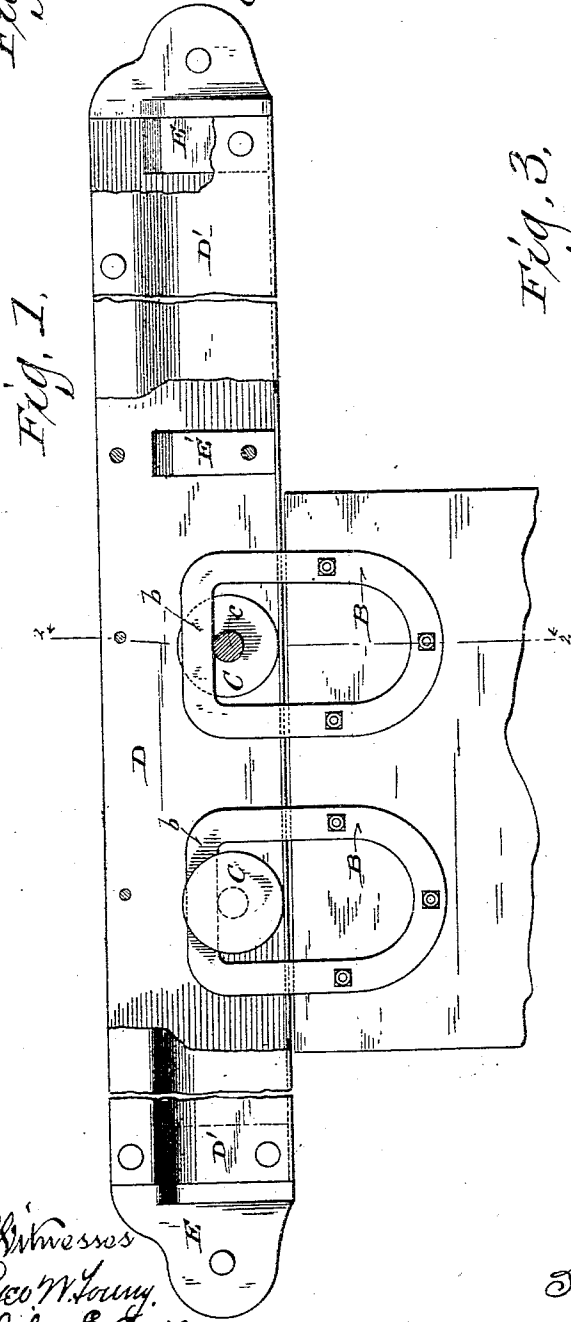
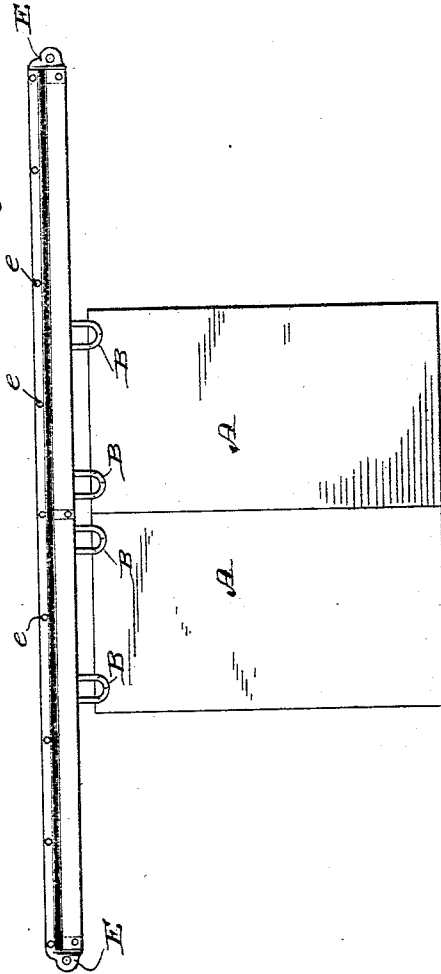


Fig. 1.

Fig. 3.



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# UNITED STATES PATENT OFFICE.

WILLIAM KEES, OF NORTHVILLE, SOUTH DAKOTA, ASSIGNOR OF TWO-THIRDS TO ANNA KEES, OF SAME PLACE, AND JACOB KEES, OF MILWAUKEE, WISCONSIN.

## DOOR-HANGER.

SPECIFICATION forming part of Letters Patent No. 504,591, dated September 5, 1893.

Application filed April 10, 1893. Serial No. 469,659. (No model.)

*To all whom it may concern:*

Be it known that I, WILLIAM KEES, a citizen of the United States, and a resident of Northville, in the county of Spink, and in the State of South Dakota, have invented certain  
5 new and useful Improvements in Door Hangers and Tracks; and I do hereby declare that the following is a full, clear, and exact description thereof.

My invention relates to improvements in door hangers and tracks, and consists in the matters hereinafter described and pointed out in the appended claims.

In the accompanying drawings illustrating my invention:—Figure 1 is a side elevation of the upper part of a door provided with my improved hangers, and represents the same as engaged with a track made according to my invention, a part of the front or cover of said track being broken away to better illustrate the construction. Fig. 2 is a vertical sectional view of the same taken on line 2—2 of Fig. 1. Fig. 3 is a side elevation of a pair of sliding doors provided with my improved hangers and engaged with my improved form of track.

In said drawings, A A represent the doors and B B suitable loops or straps of metal provided with horizontal upper portions *bb* for engagement with the axes of the rollers which engage with the track. These rollers C C are each made double as shown more particularly in Fig. 2 of the drawings, with a central spindle *c*, the space between the two parts being sufficient for the reception of the upper part of the strap B with which the said roller is engaged. The track with which the rollers C C engage is formed from two longitudinal strips of metal D D' bent into substantially the form shown in Fig. 2, in which each of said strips is provided with a horizontally disposed flange *d*, and these flanges arranged so as to be engaged with the two parts of the rollers, but at sufficient distance apart to admit the hanger straps B B. The two parts D D' of the track are secured to the outside of the wall of a building by suitable screws or bolts *e e*.

At opposite ends of the track are provided suitable blocks E E arranged to fit between the two parts of said track, and serving as

stops to limit the movement of the hangers, and at the center of the track, between the two parts D D', is provided a stop E' to prevent either door being run past the center.

The described end blocks E E not only serve as stops, as just described, but also entirely close up the ends of the track, and effectually prevent snow, ice, dirt and other substances from entering the same, which is a great advantage, and the described central block E' in addition to its described function as a stop, serves as a brace to strengthen the track, and keep the two strips of metal of which it is formed always the right distance apart.

Much annoyance has been commonly caused by hangers of the ordinary constructions becoming disengaged from the track, or by the clogging of said track with snow, ice or sleet, or any accumulation of dirt. By my improved construction however, these objections are effectually overcome, and by the described construction, the rollers are securely held in engagement at all times with the track, while by the construction of the track described, with closed ends and front, rain, snow and sleet and all dirt are effectually excluded and thus all liability of clogging of the track is prevented.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. The combination with a sliding door, of a horizontally disposed track comprising two strips of metal having horizontal flanges, one or more hangers secured to the door and arranged to extend upward between said flanges, and suitable two part rollers engaged with said flanges and each provided with a contracted central part engaging with the upper part of one of said hangers, and suitable blocks arranged between the ends of said strips which form the track and adapted to serve as stops to limit the movement of the hangers, substantially as set forth.

2. The combination with a sliding door, of a horizontally disposed track comprising two strips of metal having horizontal flanges, one of said strips arranged to rest against the outside of the wall of a building and the other strip being outwardly and downwardly curved

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so as to inclose the track formed by the two flanges, one or more hangers secured to the door and arranged to extend upward between said flanges, and suitable two part rollers engaged with said flanges and each provided with a contracted central part engaging with the upper part of one of said hangers, stop-blocks tightly closing each end of the track, and a central stop block and brace for strengthening the track and keeping the two strips of

metal of which it is formed always the right distance apart, substantially as set forth.

In testimony that I claim the foregoing I have hereunto set my hand, at Milwaukee, in the county of Milwaukee and State of Wisconsin, in the presence of two witnesses.

WILLIAM KEES.

Witnesses:

JOHN E. WILES,  
N. E. OLIPHANT.