

T. F. HAMILTON.
DOOR HANGER AND RAIL.

No. 111,342.

Patented Jan. 31, 1871.

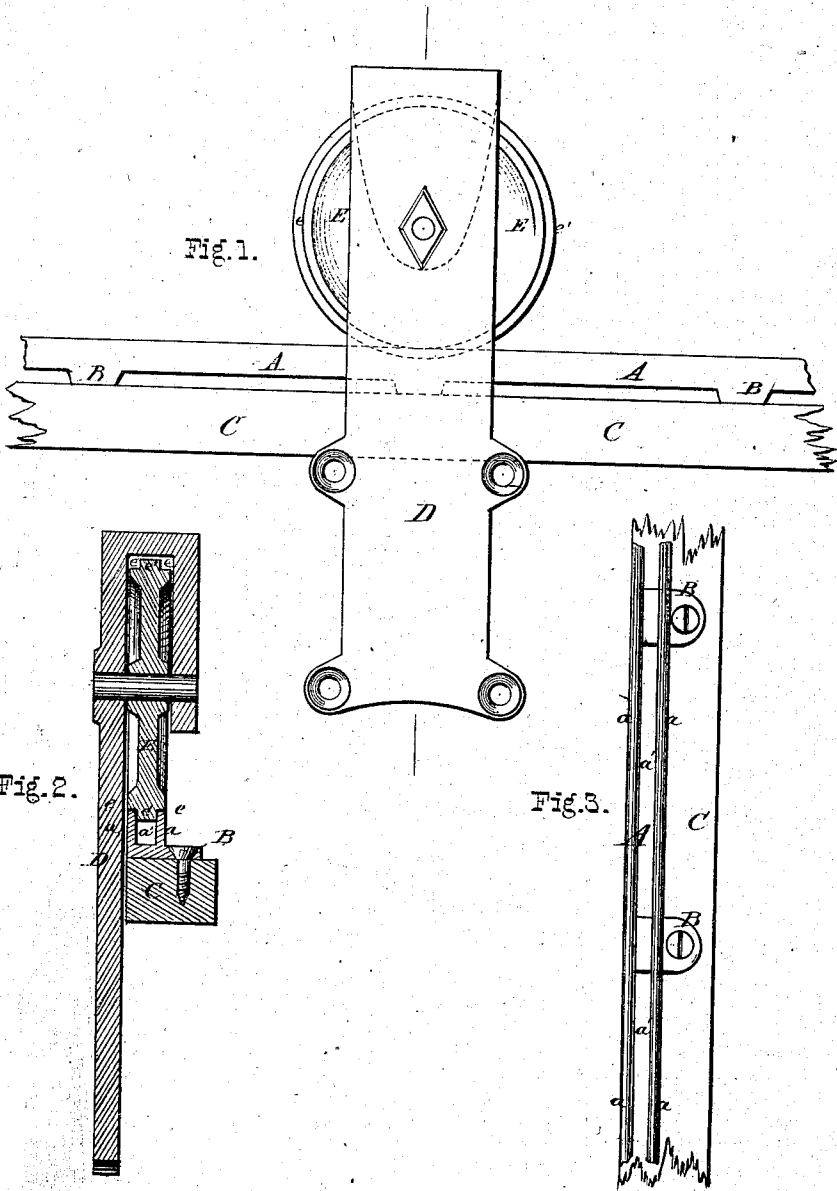


Fig. 2.

Fig. 3.

Witnesses.

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Attys.

United States Patent Office.

THOMAS FOSTER HAMILTON, OF GENESEO ILLINOIS

Letters Patent No. 111,342, dated January 31, 1871.

IMPROVEMENT IN DOOR-HANGERS AND RAILS.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that I, THOMAS FOSTER HAMILTON, of Geneseo, in the county of Henry and in the State of Illinois, have invented certain new and useful Improvements in Door-Hangers and Rails; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawing making a part of this specification, in which—

Figure 1 is a front elevation of my improved device;

Figure 2 is a vertical central section of the same, on the line $z z$ of fig. 1; and—

Figure 3 is a plan view of the upper side of the rail.

Letters of like name and kind refer to like parts in each of the figures.

The object of my invention is to give increased steadiness and durability to a door-hanger; and

It consists in the employment of a double rail and of a tongued pulley, substantially as is hereinafter shown and described.

In the annexed drawing—

A represents the rail, formed of two parallel bars, a , connected together at their base by means of suitable lugs, B, through the latter of which pass the screws used for securing said rail to its supporting-beam C.

Between the bars a is a space, a' , having a width about equal to their united thickness, as seen in figs. 2 and 3.

D represents a hanger-frame, of usual construction, within which is pivoted a pulley, E, having upon its periphery two right-angled rebates or grooves, e , between which is left a tongue, e' , corresponding in width to the space between the bars a .

As thus constructed, when placed upon the rail, the grooves e receive the bars a , while the tongue e' runs in the space a' between said rails.

The especial advantages claimed for this construction of the hanger and rail are—

First, having twice the usual breadth of bearing, the pulley will run more steadily, and will possess largely-increased durability;

Second, the tongue of the pulley fitting between the bars of the rail prevents the hanger or door from twisting, and much lessens the liability of their getting off the track or becoming otherwise deranged;

Third, the wheel is more easily molded and weighs less, by which means its cost is materially reduced;

Fourth, from the construction of the rail neither dirt nor water can remain upon or around it, and thereby all liability to obstruction from these causes is avoided.

Fifth, when possessing these advantages, the devices can be furnished at a smaller cost than those now in use.

Having thus fully set forth the nature and merits of my invention,

What I claim as new is—

The double open rail A, in combination with the tongued pulley E, substantially as and for the purpose specified.

In testimony that I claim the foregoing I have hereunto set my hand this 6th day of October, 1870.

THOS. FOSTER HAMILTON.

Witnesses:

C. B. SMITH,

C. L. HAMILTON.