

CHARLES B. CLARK.

Improvement in Sliding-Door Hangers.

No. 127,846.

Patented June 11, 1872.

Fig. 1.

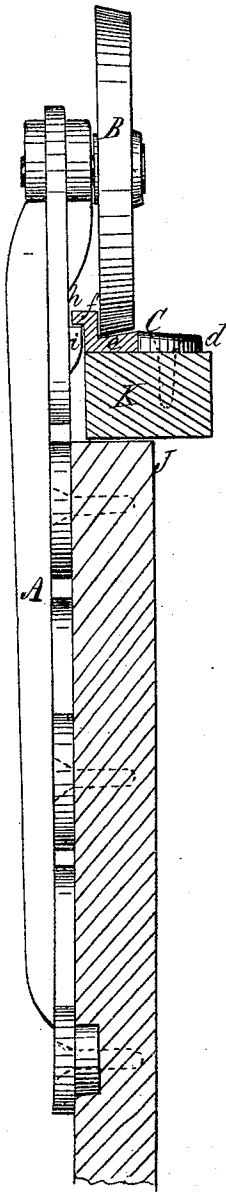


Fig. 2.

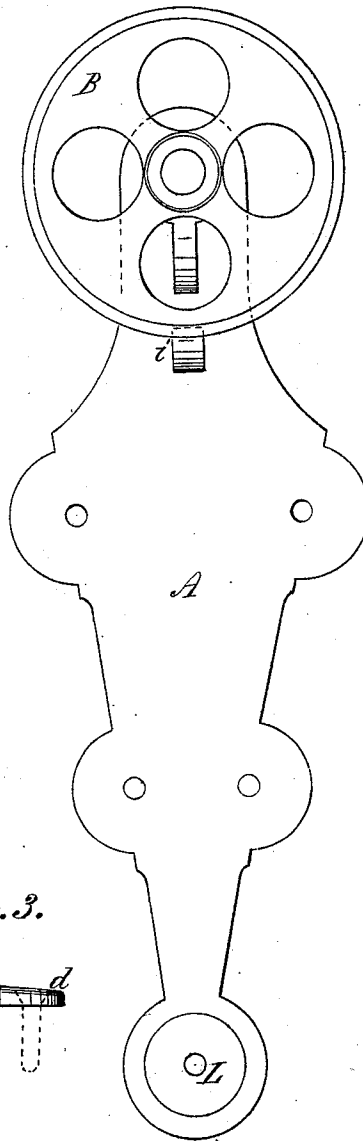
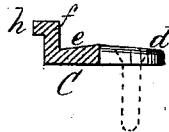


Fig. 3.



Witnesses:

J. Fraser
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Inventor.

Charles B. Clark

UNITED STATES PATENT OFFICE.

CHARLES B. CLARK, OF BUFFALO, NEW YORK.

IMPROVEMENT IN SLIDING-DOOR HANGERS.

Specification forming part of Letters Patent No. 127,846, dated June 11, 1872.

SPECIFICATION.

To all whom it may concern:

Be it known that I, CHARLES B. CLARK, of Buffalo, in the county of Erie and State of New York, have invented an Improvement in Barn-Door Hangers, of which the following is a description:

It is the object of my invention to construct the wheel of a barn-door hanger in such a manner that it may be cast with less difficulty and labor than when formed with a grooved face, and also to so construct the track that the wheel will be retained in its position and traverse the same with the least resistance; and, furthermore, to prevent the wheel being lifted off the track and the top of the door from coming in contact with the wooden strip on which the rail is supported; and it consists of a beveled wheel in combination with a beveled and vertically-flanged track, and in a lip or horizontal flange on the track in combination with a stop on the hanger-frame, as hereinafter described.

Figure 1 is a side elevation, the rail, its supporting-strip, and a portion of the door being shown in section. Fig. 2 is an elevation of the wheel and hanger-frame viewed from the reverse side. Fig. 3 is a cross-section of the rail detached.

As shown in the drawing, A is the frame, which may be made of any suitable size and form for attaching to the door by means of screws and the boss screw-bearing, as hereinafter described. The wheel B is journaled to the frame by a bolt or rivet, or in any other suitable manner, and is cast with a plain beveled face, as shown, so that the pattern may be easily drawn from the sand in molding. The rail C is a light bar, provided with lugs *d* for the screw-holes and a longitudinal-grooved track, *e*, on its upper surface, which is beveled to correspond with the face of the wheel. A vertical flange, *f*, on the outer side of the bevel forms a guard, which keeps the wheel on its

track, and from its upper portion is an outwardly-projecting lip or bead, *h*, extending the entire length of the rail. The back side (or that shown in Fig. 2) of the frame has a stop or projection, *i*, arranged in vertical line with the axis of the wheel. In this position it moves directly underneath the lip *h* when the wheel is traveling in the grooved track, and prevents the wheel from being disengaged or thrown out of the track. It further serves to prevent the top of the door J from coming in contact with the strip K, as is often the case as ordinarily hung—a defect which is attended with serious results from the large amount of friction between two wooden surfaces of considerable extent, often wet, which is sometimes sufficient to prevent the door being moved. I provide a boss, L, on the back of the hanger-frame, which surrounds the screw-hole and enters a hole bored in the door to receive it, and gives a much stronger bearing than can be obtained by screws alone, which are liable to work loose from use. As so constructed, the door moves at all times with uniform ease and smoothness and without accident from the wheel being lifted from the track, to which doors so hung are liable if force is applied in an upward or lifting direction in starting or moving them.

What I claim as my invention, and desire to secure, is—

1. A barn-door hanger, having the beveled wheel B, in combination with a beveled track, *e*, and guide *f*, substantially as set forth.

2. In combination with a rail, C, wheel B, and hanger-frame A, I claim the lip *h* and stop *i*, as and for the purpose set forth.

In witness whereof I have hereunto signed my name in the presence of two subscribing witnesses.

CHARLES B. CLARK.

Witnesses:

J. FRASER,
GEO. W. MIATT.