(No Model.)

E. L. SHAFFNER.

DOOR HANGER.

No. 279,606. Patented June 19, 1883.

Fig. 1.

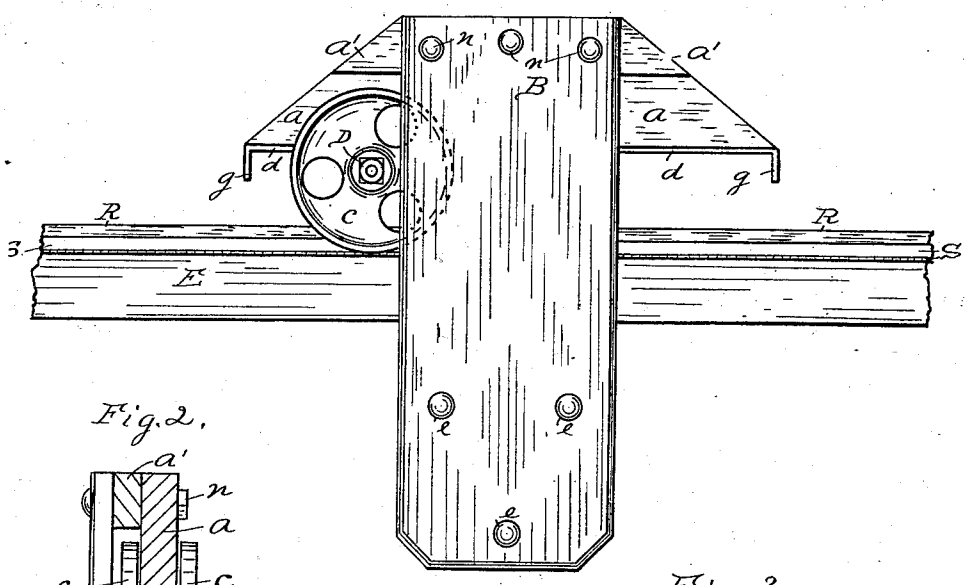


Fig. 2.

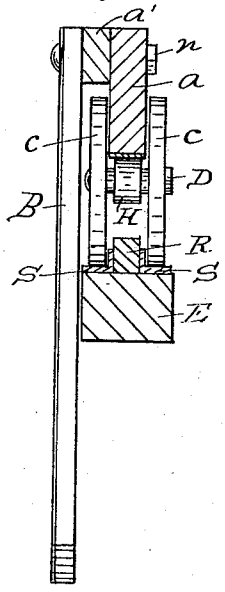


Fig. 3.

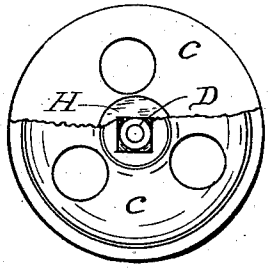
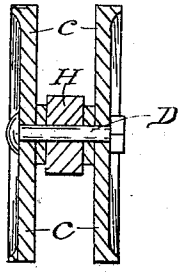


Fig. 4.



Witnesses.

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UNITED STATES PATENT OFFICE.

EPHRAIM L. SHAFFNER, OF JOLIET, ILLINOIS.

DOOR-HANGER.

SPECIFICATION forming part of Letters Patent No. 279,606, dated June 19, 1883.

Application filed April 23, 1883. (No model.)

To all whom it may concern:

Be it known that I, EPHRAIM L. SHAFFNER, of the city of Joliet, in the State of Illinois, have made a new and useful Improvement in Door-Hangers, of which the following is a specification.

My invention relates to the hanger by means of which sliding doors are opened and closed.

The object of my invention is to furnish a device by the aid of which the door may be moved to any desired position with a minimum of friction and without danger of becoming detached from its track; and it consists in the mechanism hereinafter described, and pointed out in the claim.

In the accompanying drawings, which form a part of this specification, Figure 1 represents a front elevation of a door-hanger mounted on its track, showing the working of my invention. Fig. 2 is a side view of the same. Fig. 3 is a side view of the flanged wheel with a portion broken away in order to show its construction, and Fig. 4 is a central section of the same.

Like letters of reference made use of in the several figures indicate like parts wherever used.

Referring particularly to said drawings, B represents the drop to the hanger, to which the door is attached.

a is the cross-head, and *a'* the intermediate cross-head. Said *a* and *a'* form the rider-bar for the wheel.

n n are bolts for the purpose of firmly attaching the two sections of the rider-bar, and also to support the drop B.

e e are bolts to fasten the door to the drop B.

d is an iron strip attachment for the rider-bar, and is fastened to the cross-head *a*, as shown in Fig. 1.

g g are stops to prevent the wheel running off the rider-bar.

c c are flanges of the wheel. H is the friction-roller of the same; and D is the bolt-spindle joining the two flanges *c c*, and supporting the friction-roller H. It will be noticed in this connection that the wheel consists of three independent parts or sections connected together and revolving freely upon the bolt-spindle D, as shown in Figs. 2 and 4.

E is the beam supporting the track.

R is a wooden rail; and S S are angle-iron plates attaching the beam E and the wooden rail R, and for the tread of the wheel to travel over, as shown in Figs. 1 and 2.

I am aware that a wheel consisting of independent parts or sections has been anticipated by Patent No. 236,006, issued to one Drake December 28, 1880, and I make no claim to same. I am also aware that a track consisting of double-flanged metallic plates is not novel.

Having thus described my invention, that which I claim, and desire to secure by Letters Patent, is—

In a door-hanger, the combination of the wheel consisting of the flanges *c* and the friction-roller H, revolving independently upon the bolt-spindle D, with a track to support and guide the same, consisting of the angle-iron plates S and the wood rail R, attached thereto, substantially as and for the purpose specified.

EPHRAIM L. SHAFFNER. [L. S.]

In presence of—
S. O. SIMONDS,
GEO. J. MUNROE.