

(No Model.)

C. F. POGUE.

DOOR HANGER.

No. 354,808.

Patented Dec. 21, 1886.

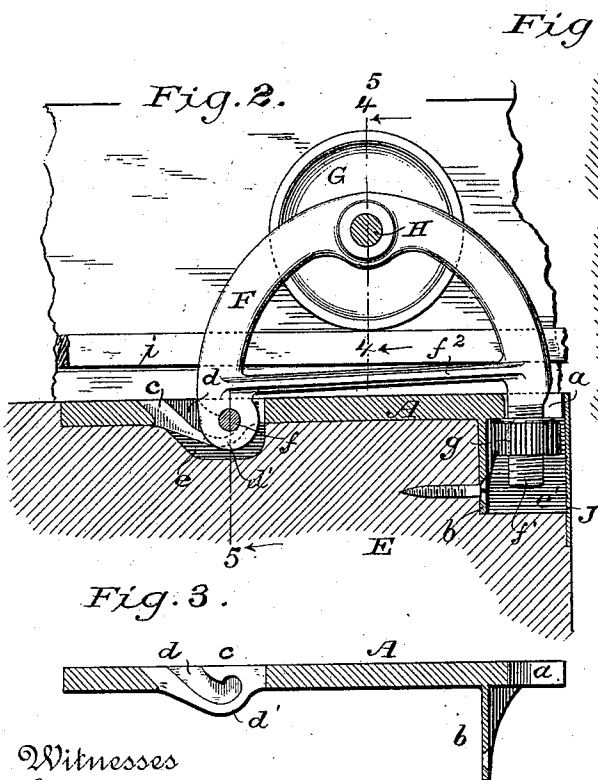
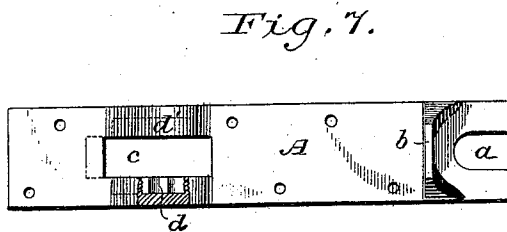
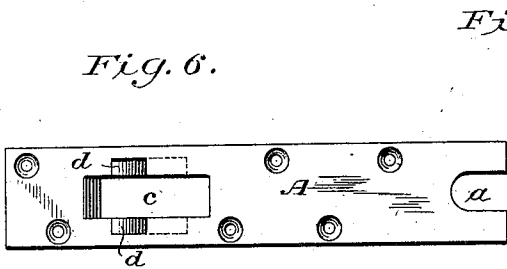


Fig. 1.

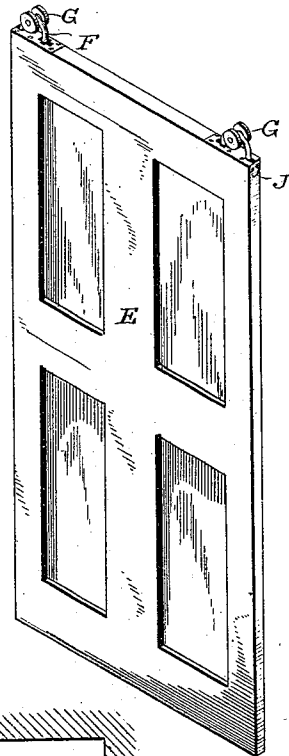


Fig. 4.

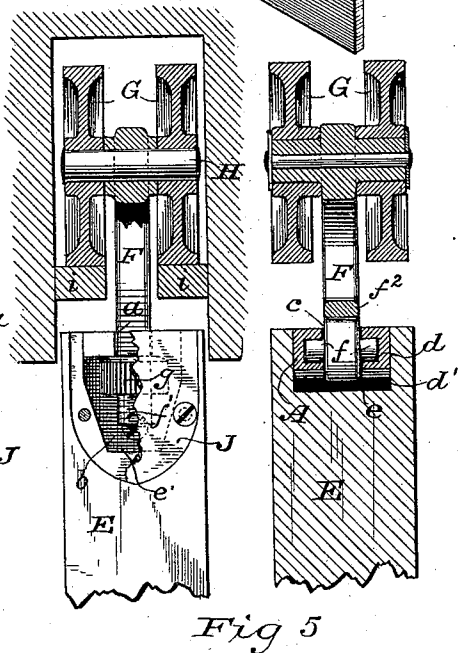


Fig. 5

Witnesses  
 Geo W Young  
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# UNITED STATES PATENT OFFICE.

CYRUS F. POGUE, OF EDMOND, KANSAS.

## DOOR-HANGER.

SPECIFICATION forming part of Letters Patent No. 354,808, dated December 21, 1886.

Application filed March 2, 1886. Serial No. 193,765. (No model.)

*To all whom it may concern:*

Be it known that I, CYRUS F. POGUE, a citizen of the United States, residing at Edmond, in the county of Norton, State of Kansas, have invented certain new and useful Improvements in Door-Hangers, of which the following is a description.

My invention relates to the class of door-hangers employed on rolling or sliding doors; and it consists in a novel organization of the parts that will readily admit of adjustment between the rollers and door, and also its easy application to a door without much cutting or recessing, and in so constructing and shaping the several members that they will be strong and light, and without much dressing or fitting will readily fit together.

In the accompanying drawings, which represent my invention in the best form now known to me, Figure 1 is a perspective view of a door with my improved hanger attached to each of its upper corners. Fig. 2 is a sectional view, on an enlarged scale, of a corner of the door and the hanger, with one of the rollers removed. Fig. 3 is a detail sectional view of the base-pieces of the hanger detached. Fig. 4 is a view in elevation of the edge of the door and casing, partly in section, on the line 4 4 of Fig. 2. Fig. 5 is a sectional view of the same on the line 5 5 of Fig. 2, and shows a modification of the method of mounting the rollers. Fig. 6 is a top plan view of the bracket or base-piece which is attached to the door. Fig. 7 is a bottom plan of the same.

The bracket or base-piece consists of a flat plate, A, provided at its front end with a notch, *a*, and a lug or projection, *b*, depending from it near the notch. Near the rear end of the base is a slot, *c*, in the side walls of which are formed inclined depressions or pockets *d*, which open at one extremity to the upper surface of the plate. The sides of the plate at this point are slightly thickened or increased in depth, as shown at *d'*. This base-plate is located in the top edge of the door E, at its corner, and is preferably let in flush with its top surface. A recess, *e*, in the top edge receives the thickened portions *d'* of the plate, while the pendent projection *b* lies in a recess, *e'*, cut in from the front edge of the door. Screws

passing through the projection *b* and the top plate, as shown, hold the base firmly in place.

The rear end of an arched yoke, F, which carries the rollers G, projects into the slot *c*, and is provided with side pins or studs, *f*, which lie in the pockets *d* in the sides thereof. At its front end the yoke terminates in a screw-threaded shank, *f'*, which extends down through the notch *a* into the recess *e'*, and is provided with a nut, *g*, which bears against the bottom side of the plate A. This nut is preferably round, and is serrated or milled on its edge. At points above where the ends of the yoke project through the plate they are united by a bar or brace, *f''*, which adds to its strength and rigidity. Near the center of the yoke, at the top of the arch, it is thickened to form a boss in which a cross-pin, H, is fitted. The rollers G are mounted upon the projecting ends of this pin at each side of the yoke, and they may turn upon the pin as an axle; or the pin may be secured in the rollers and turn as a shaft in the bearing in the yoke; or it may be free to turn in both yoke and rollers.

A modification of the method of supporting the rollers is shown in Fig. 5, and consists in casting or forming the bosses or stud-axes integrally with the yoke and mounting the rollers directly thereon. Washers at the ends of the bosses, to prevent the rollers from running off, are held in place by a small pin extending through the yoke and riveted over, as shown. A plate, J, neatly let into the front edge of the door and held by screws, closes the recess *e'*, and hides the screw-shank *f'* and its nut. The yoke may be readily detached from the base-plate by removing the adjusting-nut and lifting its front end out of the notch, then pushing it back and up until the pins or studs *f* rise out of the pockets *d*, formed in the side walls of the slot *c*.

As shown in Figs. 3 and 4, the rollers run upon two side bars or tracks, *i i*, secured in the casing above the door in any suitable manner; or, if the hanger is to be used upon an outside door—a stable-door, for instance—the bars will be supported in the usual way. This, however, is well understood, and is immaterial to my invention. Through the sagging of these walls, or sometimes through the warping

or distortion of the door itself, it will not, when closed, fairly meet the edge of the adjacent door or the face of the jamb. When this occurs, the door may easily be adjusted by removing the plate J, and raising or lowering the front side of the door, by means of the adjusting-nut *f*, until its edge is brought to the desired perpendicular.

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

1. In a door-hanger, a roller-supporting frame, consisting of an arched yoke provided at one extremity with pivot-studs and at the other with a threaded shank and adjusting-nut, the stud-axles for the rollers being mounted at the top of the yoke, the extremities of which are united and strengthened by a connecting cross-bar, substantially as shown.

2. In a door-hanger, the combination of the roller-supporting frame F, having pivot-studs *f* at its heel and a threaded shank at its front end made integral therewith, a base-plate, A, slotted and recessed for the reception of the heel of the frame and its pivot-studs, respectively, and notched or perforated at its front end for the passage of the shank, with an adjusting-nut on said shank bearing against the lower side of the plate, substantially as and for the purpose set forth.

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

CYRUS F. POGUE.

Witnesses:

J. T. SMITH,  
HENRY A. LAMB.