(No Model.)

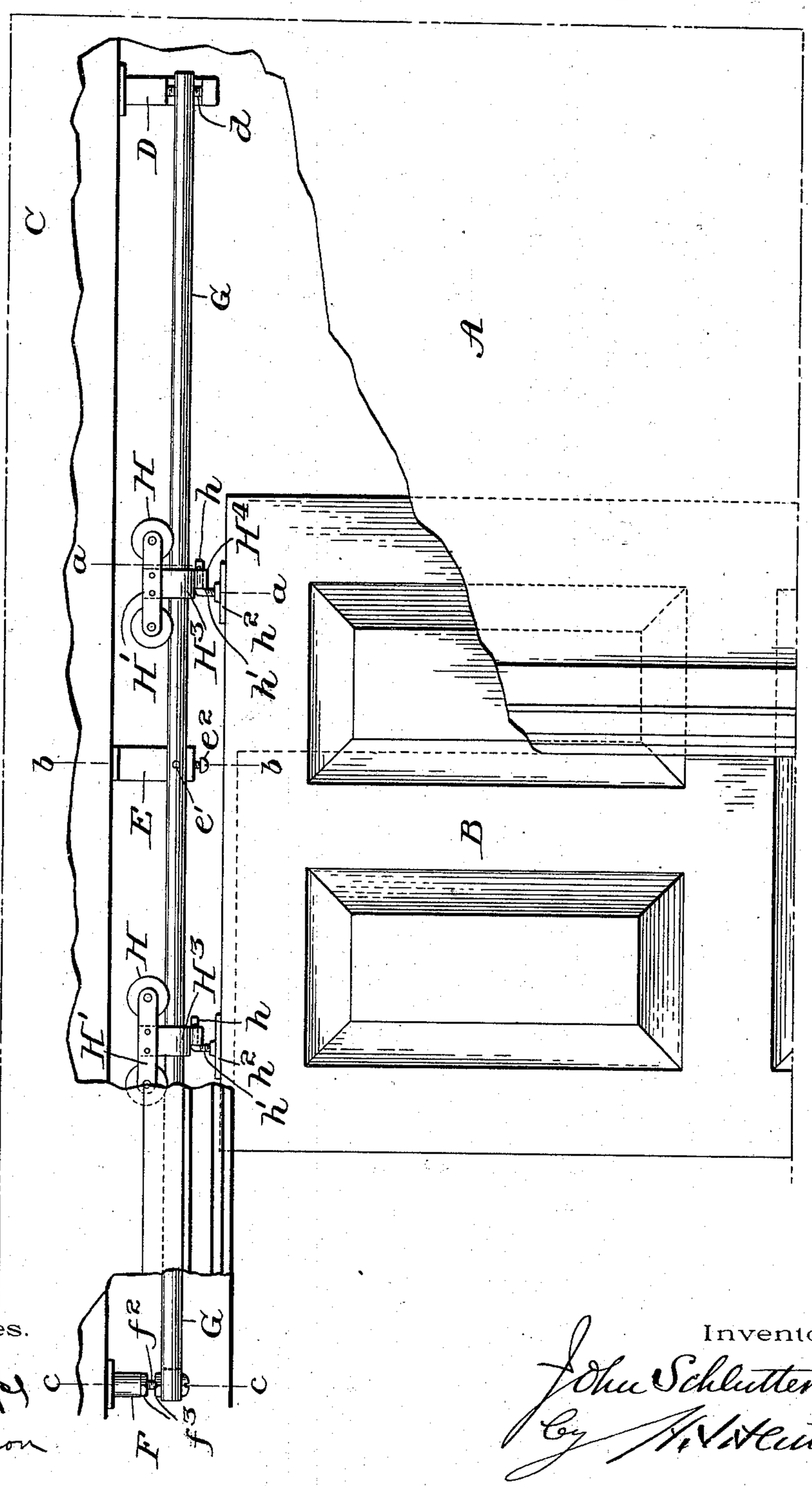
2 Sheets—Sheet 1.

J. SCHLUTTER.

DOOR HANGER.

No. 568,171. Patented Sept. 22, 1896.

Fig. 1.



Witnesses.

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J. N. Shannon

Inventor.

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Attorney.

(No Model.) 2 Sheets—Sheet 2.

J. SCHLUTTER.

DOOR HANGER.

No. 568,171. Patented Sept. 22, 1896.

Fig. 2.

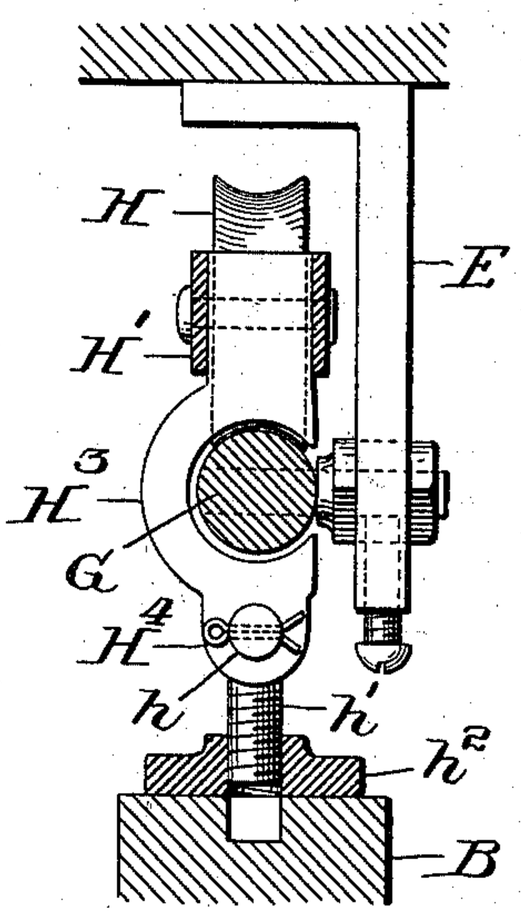


Fig. 3.

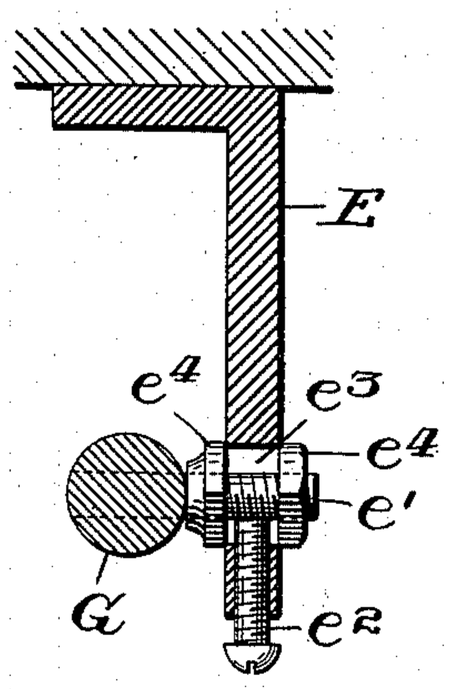


Fig. 4.

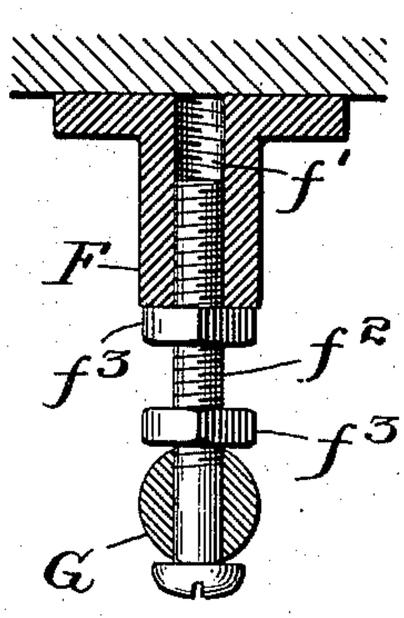


Fig. 5.

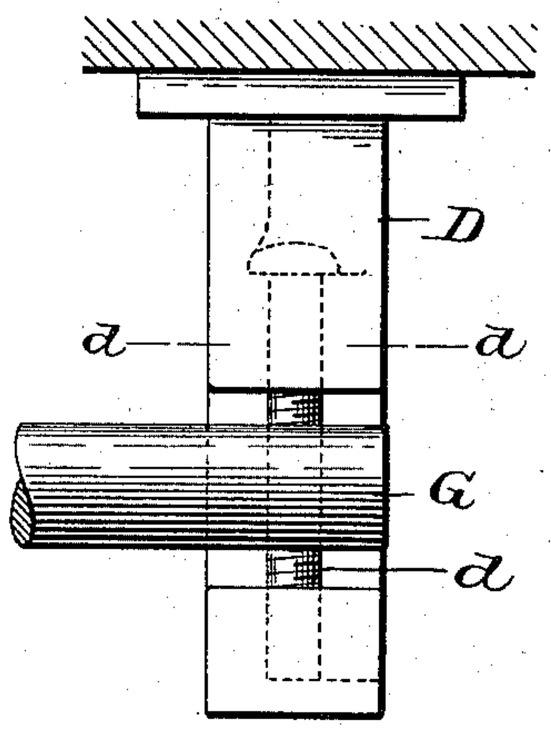


Fig. 6.

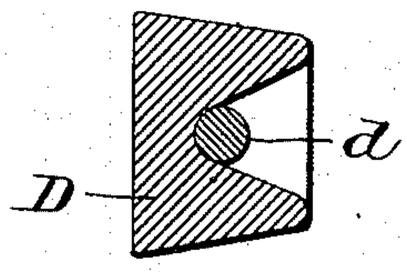
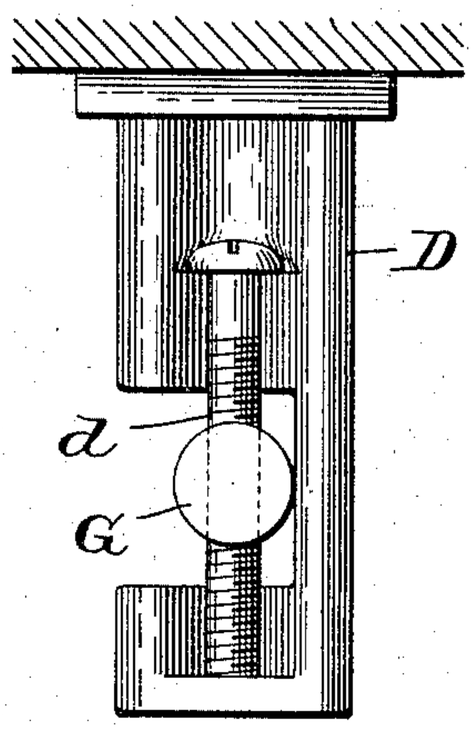


Fig. 7.



Witnesses.

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UNITED STATES PATENT OFFICE.

JOHN SCHLUTTER, OF BALTIMORE, MARYLAND.

DOOR-HANGER.

SPECIFICATION forming part of Letters Patent No. 568,171, dated September 22, 1896.

Application filed April 25, 1896. Serial No. 589,009. (No model.)

To all whom it may concern:

Be it known that I, JOHN SCHLUTTER, a citizen of the United States, residing in the city of Baltimore, State of Maryland, have invented certain new and useful Improvements in Sliding-Door Mountings, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming a part of this specification.

My invention relates to sliding doors, and has for its object to provide means for mounting and operating sliding doors that shall present little frictional contact, that shall be capable of adjustment when desired, and that shall be simple of construction and adapted to be easily removed for repairs or otherwise; and to these ends my invention consists, first, in providing a cylindrical or semicylindrical track mounted in open brackets and adapted to be easily removed therefrom and adjustable vertically therein; second, in wheel-carriers suitably mounted in pairs and provided with dependent open brackets which hug the track-rod and which bracket is adapted to receive and support the door-hanger; and my invention finally consists in details of construction, and in the complete combination of the several parts, as hereinafter set forth.

In the accompanying drawings, illustrating my invention, Figure 1 is a front elevation, with part of the wall broken away, showing my improved sliding-door mounting in position. Fig. 2 is a section on the line *a a* of Fig. 1, showing the cylindrical track-rod, the wheel-carriers, the open bracket secured to the wheel-mounting, the hanger, the door, and the adjusting central bracket for the track-rod. Fig. 3 is a section on the line *b b* of Fig. 1 of the central adjusting-bracket for the track-rod. Fig. 4 is a like view on the line *c c* of Fig. 1 of one of the end adjusting-hangers for the track-rod. Fig. 5 is a front elevation of the other end adjustable open bracket for the track-rod; and Fig. 6 is a lateral section thereof on the line *d d* of said Fig. 5, while Fig. 7 is a side elevation of the said bracket, showing the track-rod and adjusting-screw.

Referring to Fig. 1, A represents the hollow partition-walls, and B the door sliding therein. Within the hollow partition-walls and secured to the studding C are the end open bracket D, the central open bracket E, and the end-bracket pin F. The track-rod, adjustably supported in these brackets, is designated by the letter G, and is preferably cylindrical in form or semicylindrical, with the curved side upward. Upon the track-rod is mounted the wheel-carriers, which consist of a pair of wheels H, having concave faces to fit the curved surface of the track-rod, journaled in a two-sided frame H′, to which is secured a depending bracket H^3, which is open and hugs the track-rod, and having an extended ear-piece H^4, recessed at *h* to admit the pin *h′* of a hanger h^2, secured to the top of the door and whereby the latter is suspended and indirectly moved on the track-rod.

The central bracket E is open and is provided with a lateral adjusting-screw *e′* and a vertical adjusting-screw e^2, the latter operating to move the former in a slot e^3 in the bracket (see Fig. 3) and be locked therein by nuts e^4.

The end bracket D (see Figs. 5, 6, and 7) is an open bracket, and is also hollow to enable it to receive a set-screw *d*, which passes through the end of the track-rod and thereby enables one to adjustably raise or lower the track-rod when desired.

The opposite end-bracket pin F (see Fig. 4) is centrally screw-threaded at *f′* to receive the end of the set-screw f^2, which passes through the other end of the track-rod and whereby the latter is adjustably raised or lowered when desired. The nuts f^3 will lock it in position. The track-rod is by this means held from endwise movement. The track-rod may be removed, the doors having been unshipped, by giving it an endwise movement sufficient to enable the screw *d* to clear the bracket D, the screw *e′* to clear the bracket E, and the recessed end of the rod to clear the screw-pin f^2. It may then be lowered and moved endwise to permit access to the screw *d* for its vertical adjustment. The screw c^2 is accessible for adjustment from the door-opening. The rod can then be elevated and replaced in the brackets, while the construction of the wheel-carriers, with dependent bracket and ear-piece, the former hugging the track-rod and the latter recessed to admit of easy insertion of the hanger-pin, provides

a very desirable and economically constructed and operated sliding-door mounting.

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

1. A mounting for sliding doors, comprising a track-rod, a pair of end supporting-brackets therefor adapted to be secured to the studding, one of said brackets being vertically screw-threaded to receive a supporting-pin passing through the track-rod, and the other of said brackets being hollow and open at its side and adapted to receive within its interior a set-screw passing through the track-rod; with means to provide central adjustment of the rod; in combination with wheel-carriers and hangers arranged between the same and the sliding doors to be carried thereby; substantially as described.

2. A mounting for sliding doors, comprising a track-rod, and wheel-carriers, said carriers consisting of a frame provided with a depending open bracket H^3, which embraces said track-rod upon its under and outer surfaces and which is formed with an extended ear-piece which projects below the said rod, and is recessed to receive a journal-pin of a door-hanger, and a pair of wheels journaled to said frame and adapted to run on said rod, substantially as specified.

3. A mounting for sliding doors, comprising the end brackets D and F, central bracket E, track-rod D, wheel-carriers having wheels H, open extension-bracket H^3 and earpiece H^4 and a hanger h^2 provided with journal-pin h'; said parts being constructed, combined and arranged substantially as and for the purpose set forth.

In testimony whereof I have hereunto affixed my signature this 23d day of April, A. D. 1896.

JOHN SCHLUTTER.

Witnesses:
THOS. KELL BRADFORD,
A. W. BRADFORD.