

(Model.)

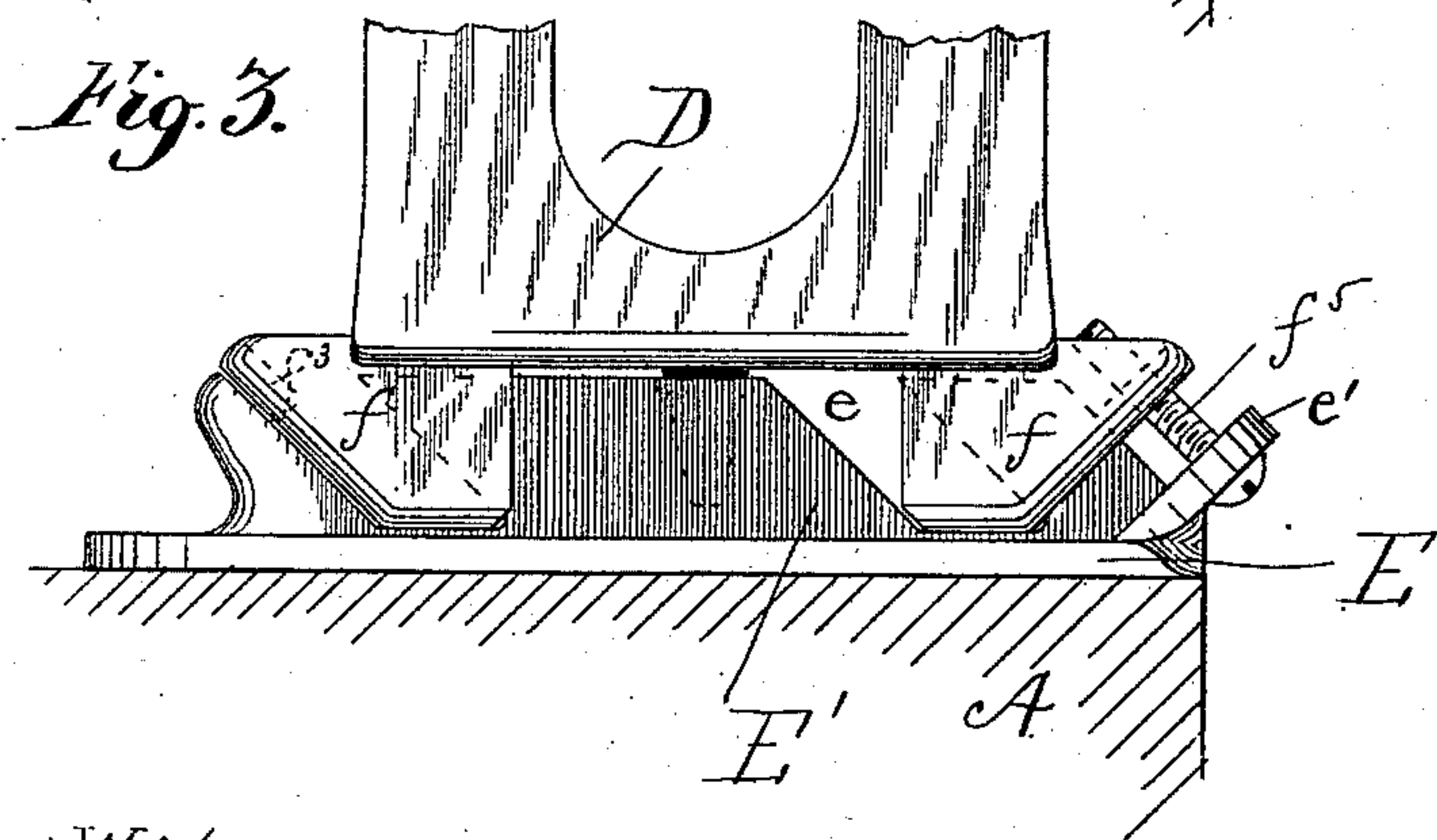
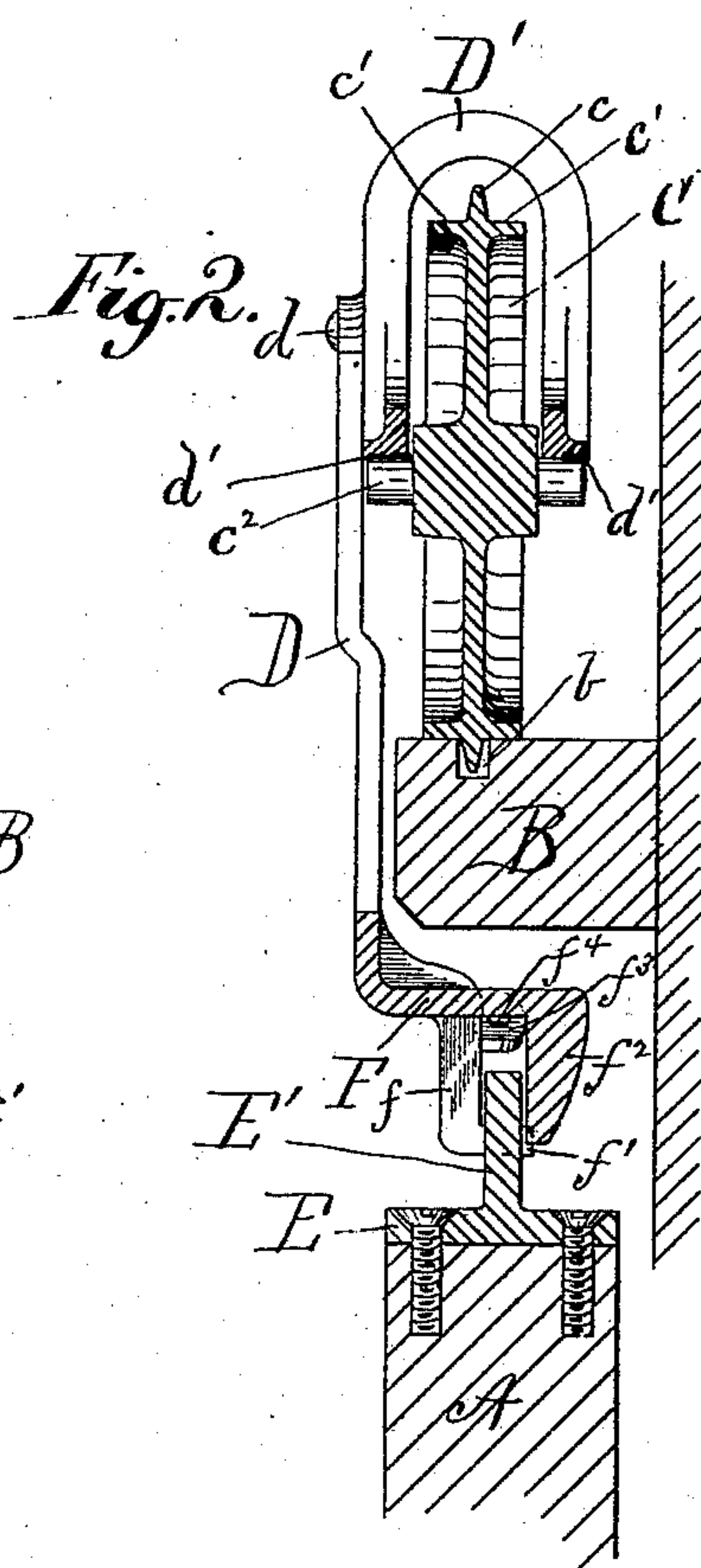
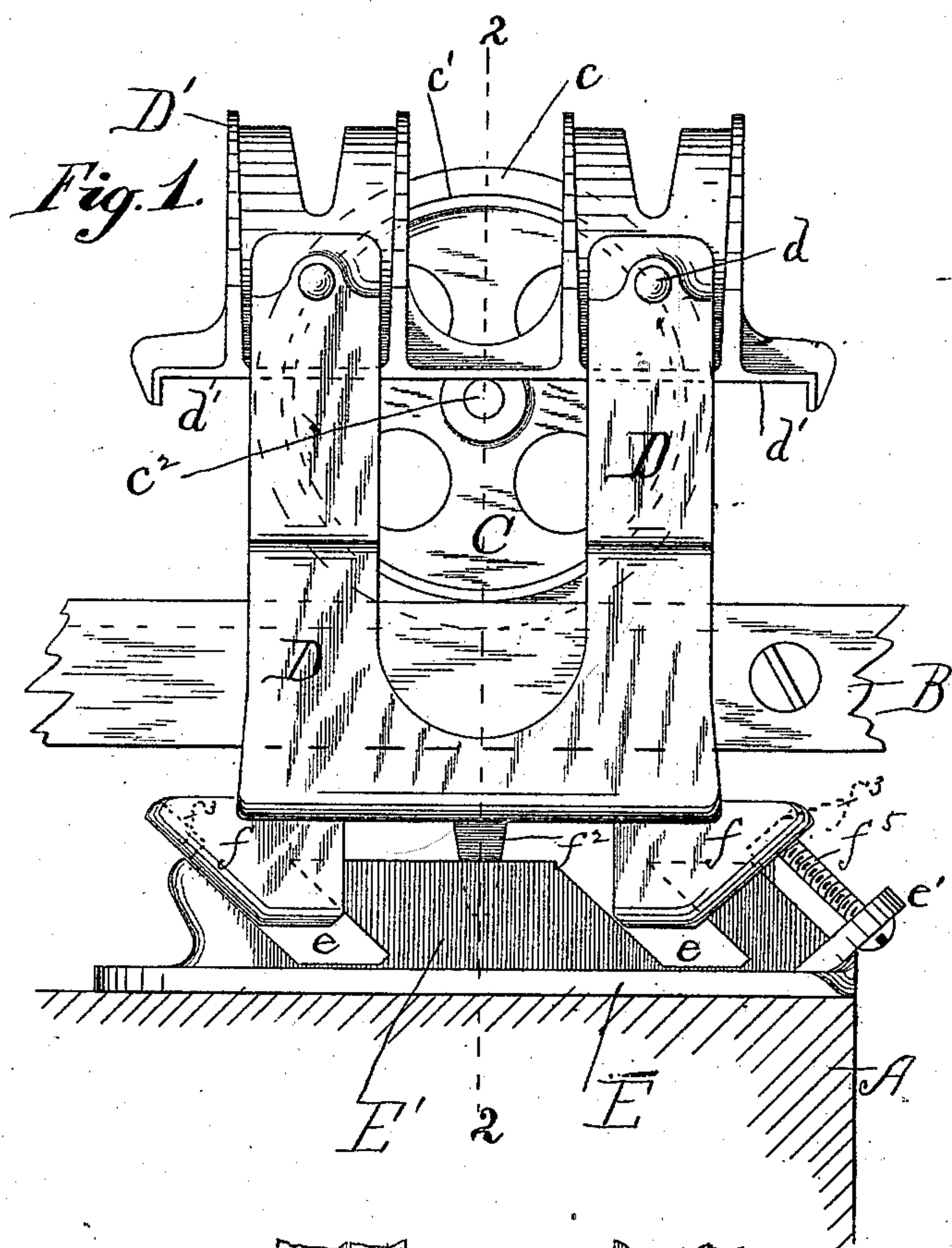
2 Sheets—Sheet 1.

S. M. STEVENS.

DOOR HANGER.

No. 287,065.

Patented Oct. 23, 1883.



Witnesses:
J. Everett Brown
A. W. Munday,

Inventor:
Sidney M. Stevens
per Munday Evans & Adcock
his Attorneys:

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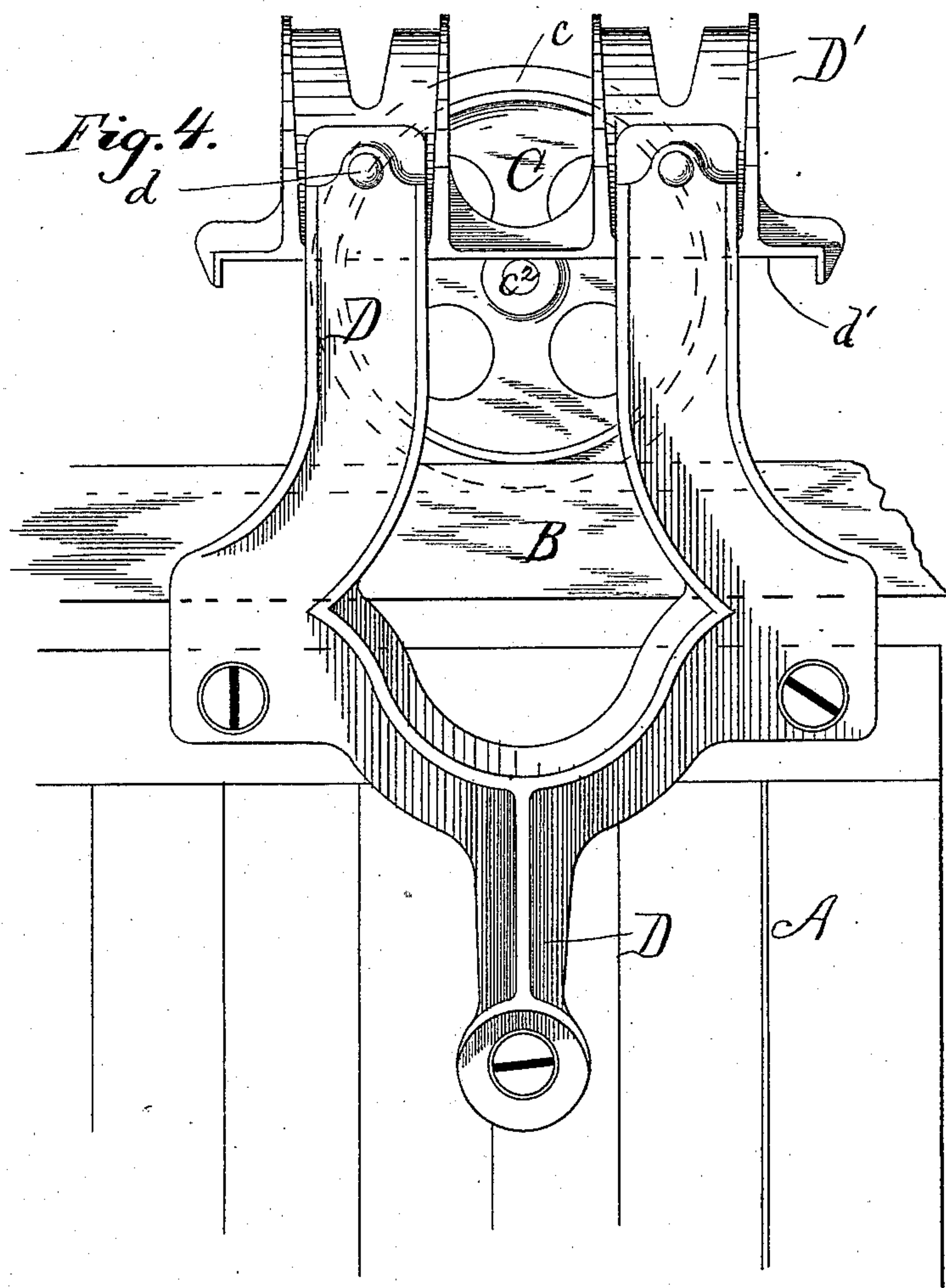
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UNITED STATES PATENT OFFICE.

SIDNEY M. STEVENS, OF DE KALB, ILLINOIS.

DOOR-HANGER.

SPECIFICATION forming part of Letters Patent No. 287,065, dated October 23, 1883.

Application filed April 12, 1883. (Model.)

To all whom it may concern:

Be it known that I, SIDNEY M. STEVENS, a citizen of the United States, residing in De Kalb, in the county of De Kalb and State of Illinois, have invented a new and useful Improvement in Sliding-Door Hangers, of which the following is a specification.

This invention is designed to improve the hangers of barn and other sliding doors; and it consists in the novel construction thereof, as hereinafter set forth.

In the accompanying drawings, which form a part of this specification, and in which similar letters of reference indicate like parts, Figure 1 is a side elevation of my invention. Fig. 2 is a transverse section thereof on the line 2 2 of Fig. 1. Fig. 3 is a partial side view, showing the door adjusted to a different height from that shown in Fig. 1; and Fig. 4 shows my invention as adapted for use on barn and other doors which do not need to be adjusted vertically.

In the drawings, A represents the door supported by my hanger, and B is the rail upon which the roller C of the hanger runs, and which is attached to the wall of the partition wherein the door-opening is located. This rail I prefer to make of hard wood, as I find that it is sufficiently durable when so made, and it is less expensive and lighter than the metal rails. It is grooved longitudinally at b, to receive the central flange, c, of the roller, while its flat surface at either side of the groove receives and sustains the treads e' of the roller. With the roller having the central flange and the rail having the groove corresponding to said flange, I cheapen the construction of the hanger very materially from the old forms, wherein the wheel is provided with flanges at the sides, which set down at either side of the rail, and from those forms in which a flangeless wheel is used in connection with rails provided with side flanges inclosing the wheel. The hanger proper, or that part which supports the door from the roller, I make of metal and in two parts, one vertical part, D, extending down to the door or to the interposed adjusting device, as hereinafter explained, and the arched part D', riv-

eted to the part D by rivets d, and having formed thereon the horizontal bearing-surfaces d', which rest upon the axis c' of the roller. By thus making this arch D' of a separate casting, the manufacture is simplified, and, moreover, I obtain bearings for the roller which need little or no truing. This truing operation is a very much easier and more accurate operation than it would be if the arch were of one piece with the hanger part D, as it can be completely finished before the arch is being joined to said hanger part.

Where the door is likely to need vertical adjustment, I attach to its upper edge a plate, E, having a vertical ridge, E', having diagonal inclined notches e, and an oppositely-inclined head, e', at one end, and provide the part D with a lower lateral extension, F, from which depend guide-pieces f, the lower points, f', whereof are made to point in a horizontal direction, so as to project into the notches e'. Said extension is also provided with another guide, f², setting down upon the opposite side of the ridge E'. Each of the guides f is provided with a lateral projection, f³, at the upper outer corners, and in these projections are threaded openings f⁴, for the adjusting-screw f⁵, passing upward thereinto through the head e'. The extension, the guides, and the parts borne thereon I prefer to make in one piece with the part D. By thus providing both guides with this screw-opening, the adjusting-plate may be reversed from the position shown and used with the same facility. The operation of this adjusting part of the hanger is simple, the tightening or loosening of the screw raising or lowering the door, as required, and in such adjustment the guides act in conjunction with the ridge E' as stops against lateral movement.

I claim—

1. In combination with a roller having a pivot projecting to either side, the arch D', having the horizontal bearing-surface d' formed upon both its edges, substantially as specified.

2. In a door-hanger, the combination, with the vertical part D, of the extension F, guides f f' f³, and guide f², all made in one piece with the part D, substantially as specified.

3. The combination, with the vertical de-
pending part D, of the adjusting-guides and
screw-opening f^4 , made in one piece with said
part D, the plate E, having the notched ridge
5 and head e' , and the adjusting-screw, substan-
tially as specified.

4. The combination of the part D, carrying
the extension, the guides, and the screw-open-

ings at both ends, of a notched ridge-plate pro-
vided with the screw boss or head, and the 10
adjusting-screw whereby the ridge-plate may
be reversed, substantially as specified.

SIDNEY M. STEVENS.

Witnesses:

PATRICK REDMOND,
SAMUEL E. BRADT.