

(No Model.)

W. H. SAMSON.

DOOR HANGER.

No. 371,369.

Patented Oct. 11, 1887.

Fig. 1.

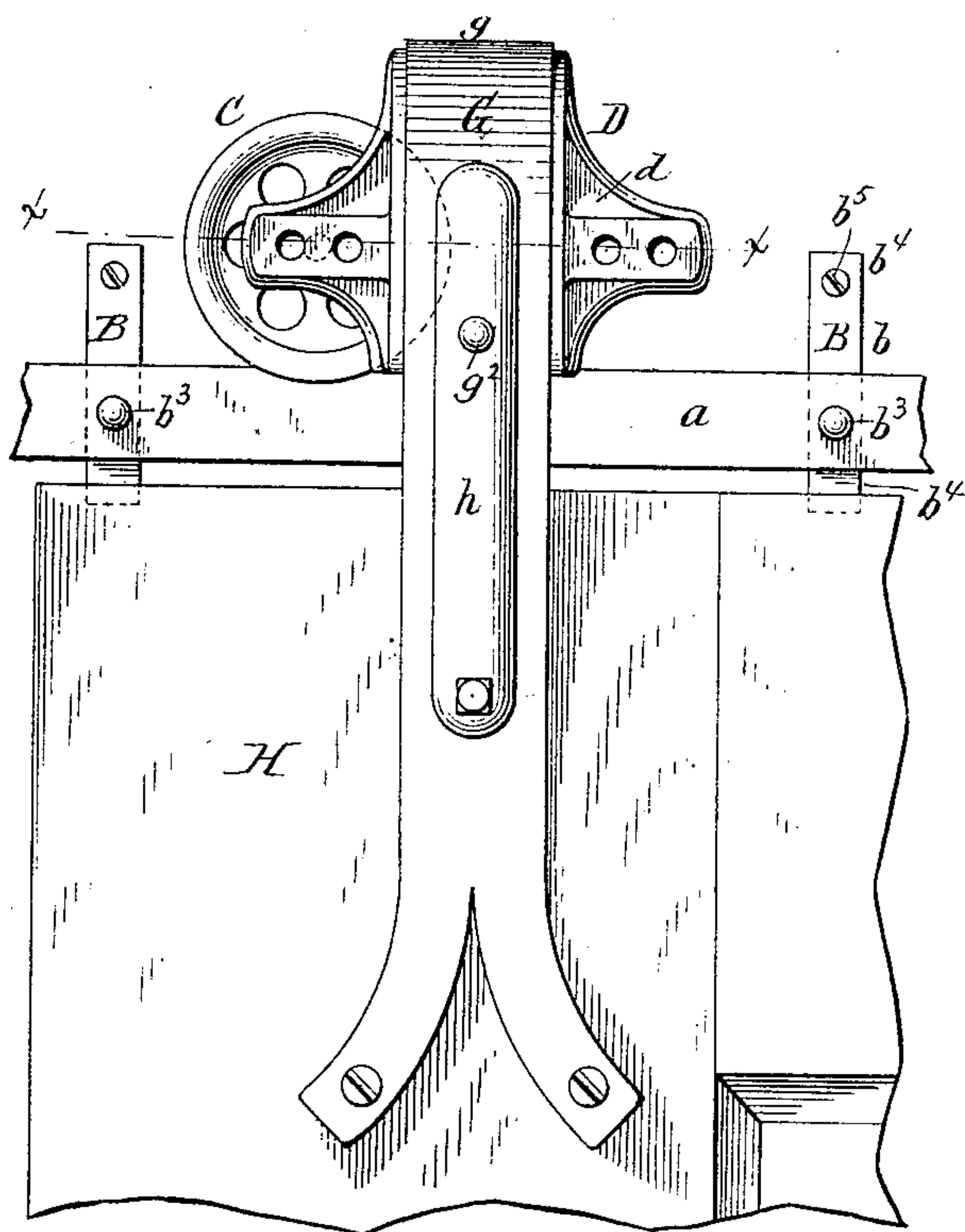


Fig. 2.

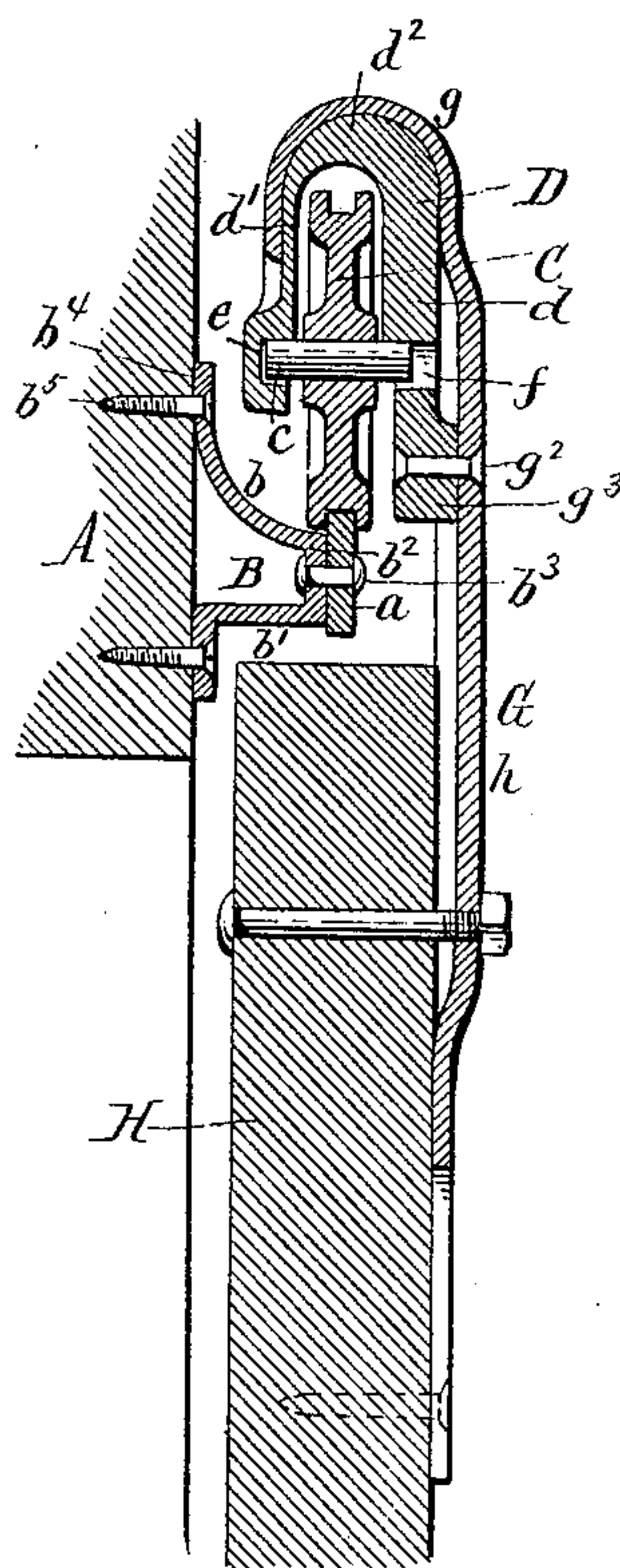


Fig. 3.

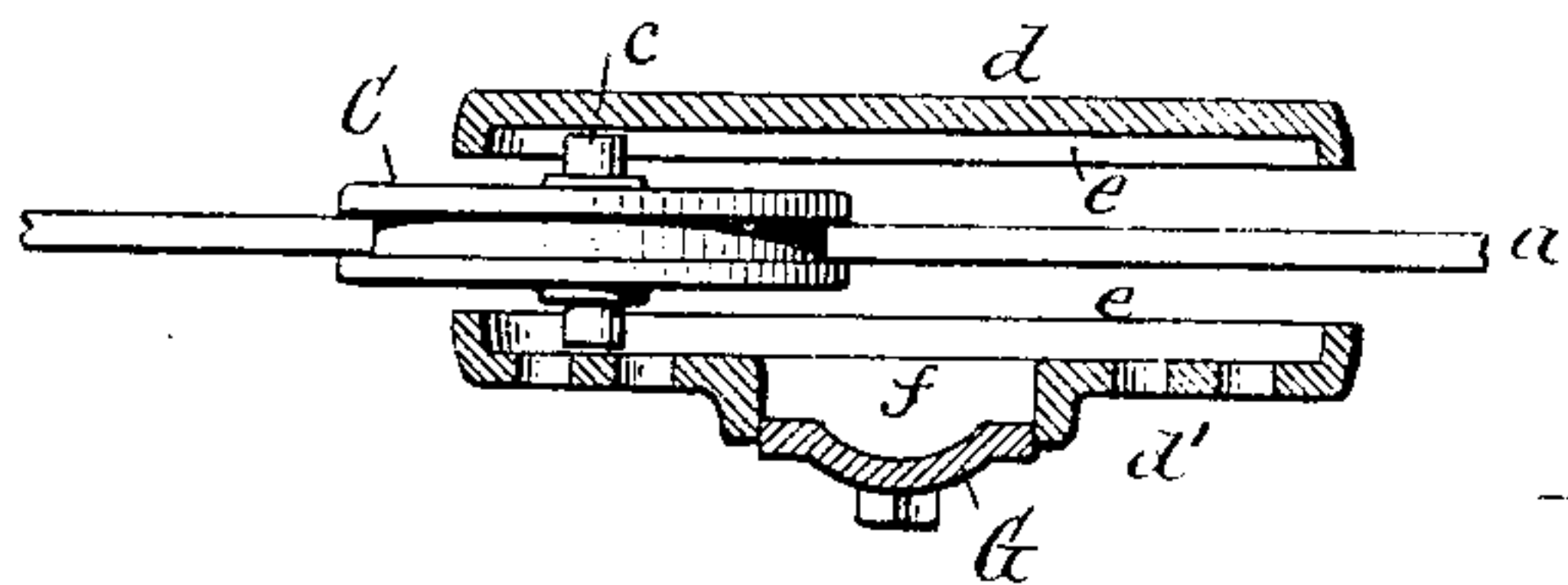


Fig. 4.

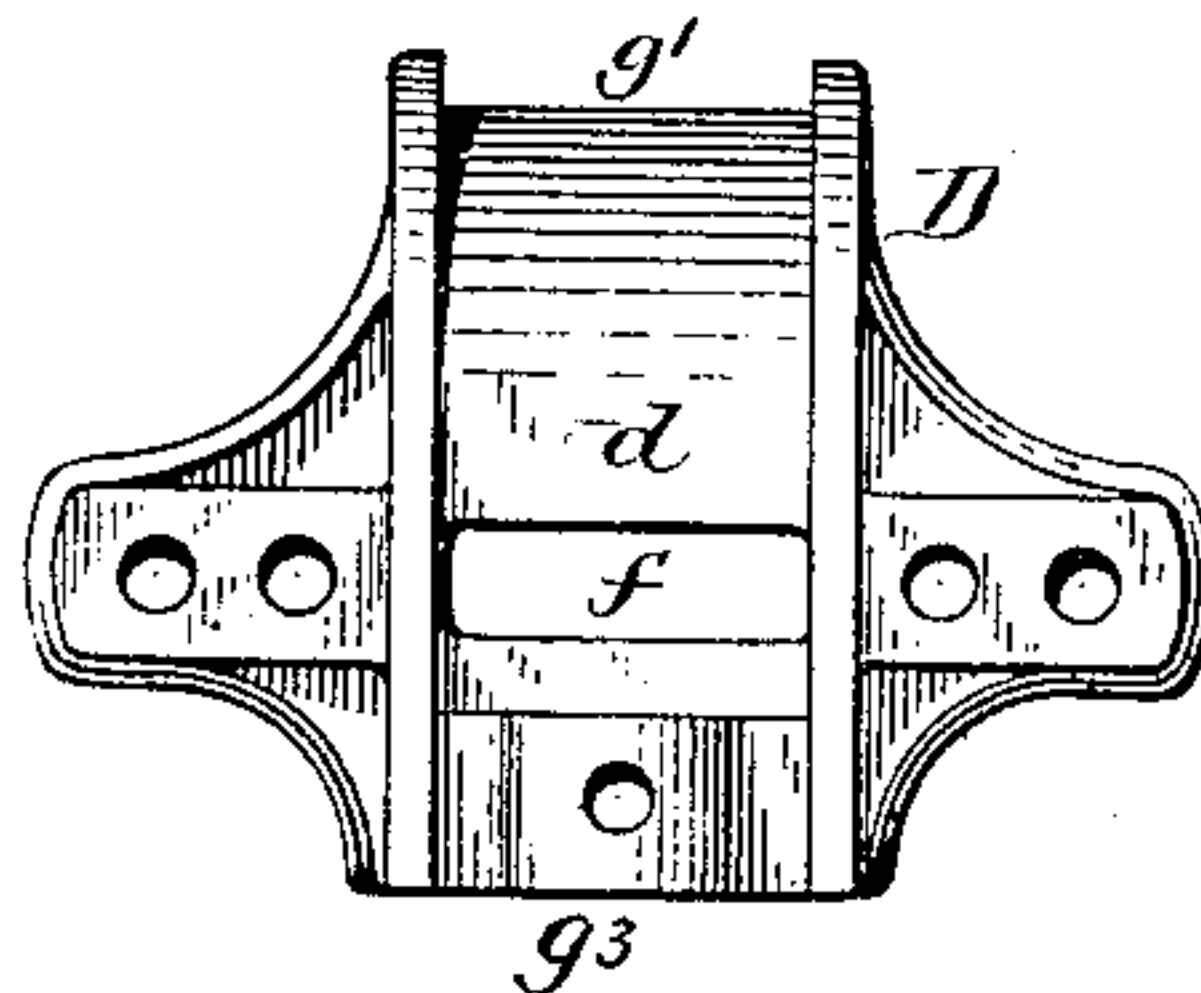
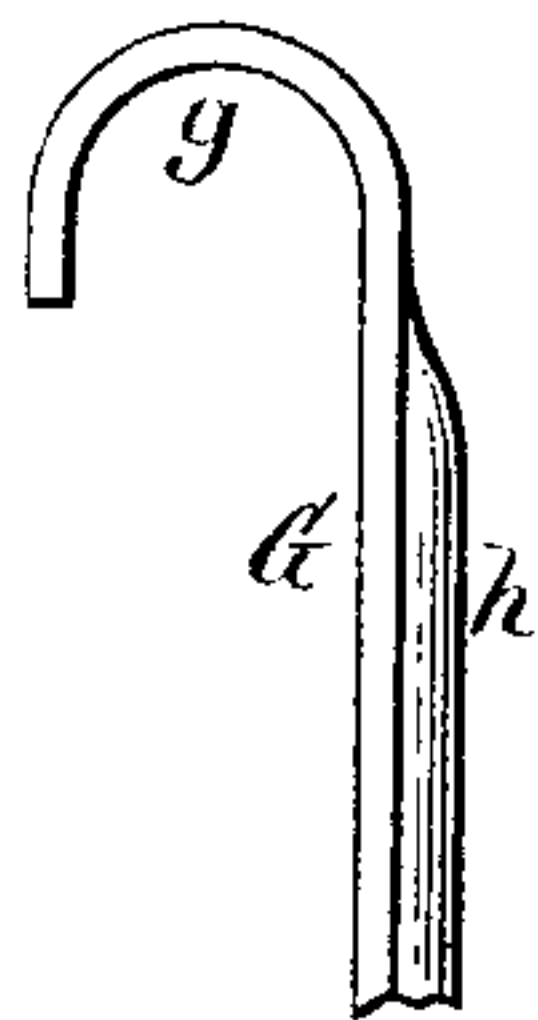


Fig. 5.



Witnesses:

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DOOR-HANGER.

SPECIFICATION forming part of Letters Patent No. 371,369, dated October 11, 1887.

Application filed May 9, 1887. Serial No. 237,547. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM H. SAMSON, of Medina, in the county of Orleans and State of New York, have invented new and useful
5 Improvements in Door-Hangers, of which the following is a specification.

This invention relates to an improvement in that class of door-hangers in which the hanger-strap is composed of wrought-iron, and has for
10 its object to produce a strong, simple, and durable hanger, which can be manufactured at comparatively small expense.

The invention consists of the improvements in the construction of the hanger, which will
15 be hereinafter fully described, and pointed out in the claims.

In the accompanying drawings, Figure 1 represents a front elevation of my improved door-hanger. Fig. 2 is a vertical cross-section
20 of the same. Fig. 3 represents a horizontal section in line *x x*, Fig. 1. Fig. 4 is a front elevation of the head or frame in which the roller is journaled. Fig. 5 represents an edge elevation of the upper portion of the hanger-
25 strap.

Like letters of reference refer to like parts in the several figures.

A represents the cross-piece, beam, or other stationary part of the building, to which the
30 horizontal track or rail *a* is secured. The track *a* is supported by brackets B, which are secured to the support A, and are each composed of an upper curved arm, *b*, and a lower horizontal arm, *b'*, which are connected by a
35 vertical front bar, *b²*, to the outside of which the track *a* is secured by rivets *b³*, or other suitable means. The arms *b b'* are provided at their rear ends with upright perforated tips or flanges *b⁴*, through which pass the fasten-
40 ing-screws *b⁵*.

C represents the roller, which runs upon the track *a*, and is provided a peripheral groove in the usual manner. The roller C is journaled in a bifurcated head or frame, D, which
45 is composed of two parallel plates, *d d'*, arranged, respectively, on the front and rear sides of the roller, and a curved connecting top bar or plate, *d²*, which extends over the rollers. The side plates, *d d'*, of the frame D
50 are provided on their inner sides with horizontal grooves or ways *e e*, in which is ar-

ranged the spindle or axle *c* of the roller, and which form bearings for the spindle, in which the latter is free to move horizontally in a well-known manner.

f represents an opening or slot formed in the outer plate, *d*, of the frame D, through which the spindle *c* is inserted into the opening in the hub of the roller C. The opening *f* is arranged in line with the groove *e* of the plate
55 *d*, and opens into the same.

G represents the strap, whereby the head of the frame D is secured to the door H. The upper end of the strap G is bent, as shown at *g*, to conform to the shape of the curved con-
60 necting-bar or top portion, *d*, of the frame, and rests on the same. The frame D is preferably formed with a groove or depression, *g'*, in which the upper portion of the strap G is seated. The strap G is secured by a bolt or
65 rivet, *g²*, to an extension, *g³*, formed at the lower end of the front plate, *d*. This construction holds the strap G firmly upon the frame D, and enables the strap to be secured by a single bolt or rivet. The strap G is prefera-
70 bly indented, to form a vertical rib or raised portion, *h*, for increasing its stiffness.

The spindle *c* is inserted into the opening of the hub of the roller through the opening *f* before the strap is secured to the frame D. 80
When the spindle *c* has been secured in the hub of the roller, the strap is secured to the frame, and the opening *f* is closed by the adjacent portions of the strap G, thereby retaining the spindle in the grooves *e*. This construc-
85 tion facilitates the operation of journaling the roller in the frame D, and also enables the frame to be formed in one piece, thereby materially reducing its cost of production.

By my improved construction the head, with
90 its grooves *e* and opening *f*, can be made of cast-iron and the strap G of wrought-iron, thereby forming a strong, cheap, and serviceable hanger.

I claim as my invention—

1. In a door-hanger, the combination, with
95 a frame composed of front and rear plates, *d d'*, made in one piece and provided on their inner sides with longitudinal grooves *e*, opening inwardly and closed outwardly, and an
100 opening, *f*, in one of said plates, communicating with the groove of said plate, of a roller,

C, arranged between said plates, a spindle, *c*, inserted into the hub of the roller through the opening *f* in one of said plates, and a strap, whereby the frame is secured to the door, substantially as set forth.

2. The combination, with the frame D, having a groove or depression, *g'*, in its upper side, of the strap G, seated in said depression, and

a bolt or rivet, *g*², whereby the strap is secured to the frame D, substantially as set forth. 10

Witness my hand this 3d day of May, 1887.

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Witnesses:

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