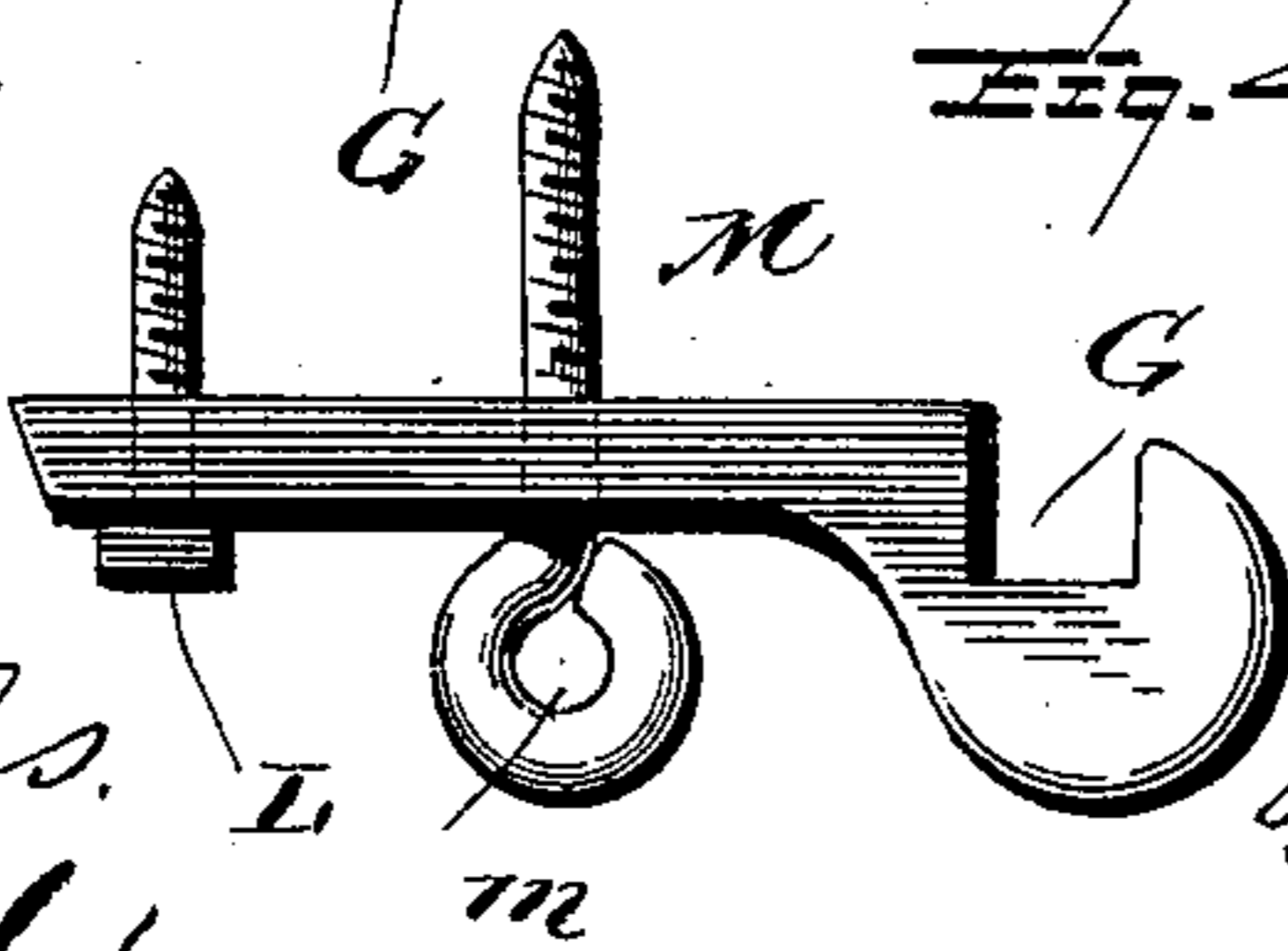
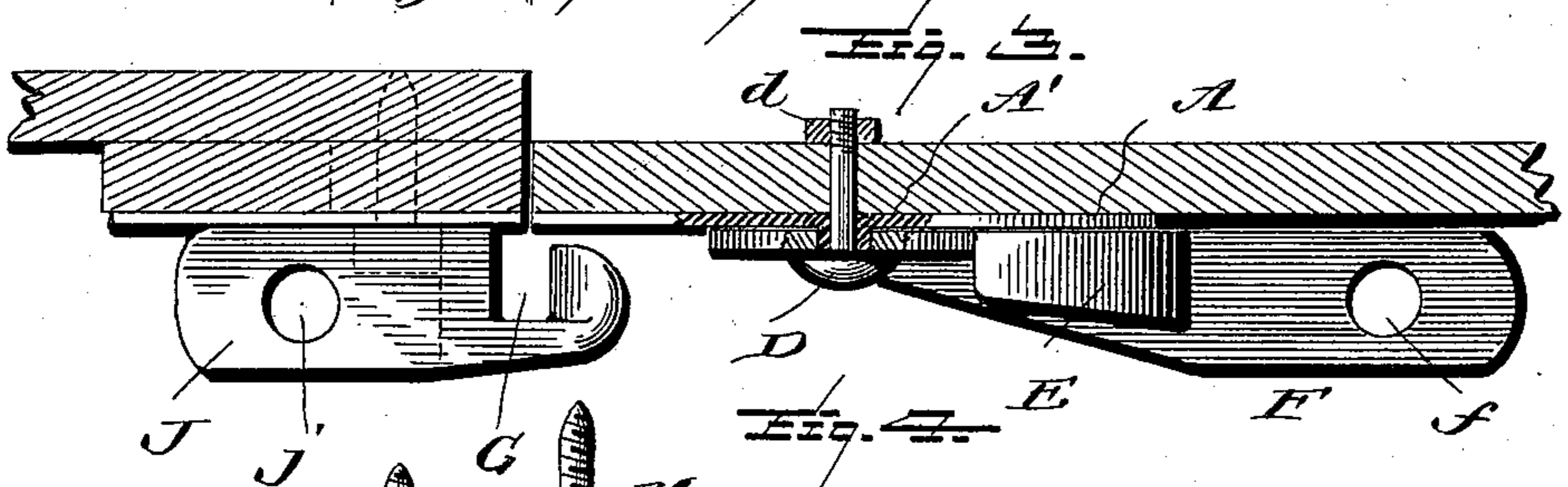
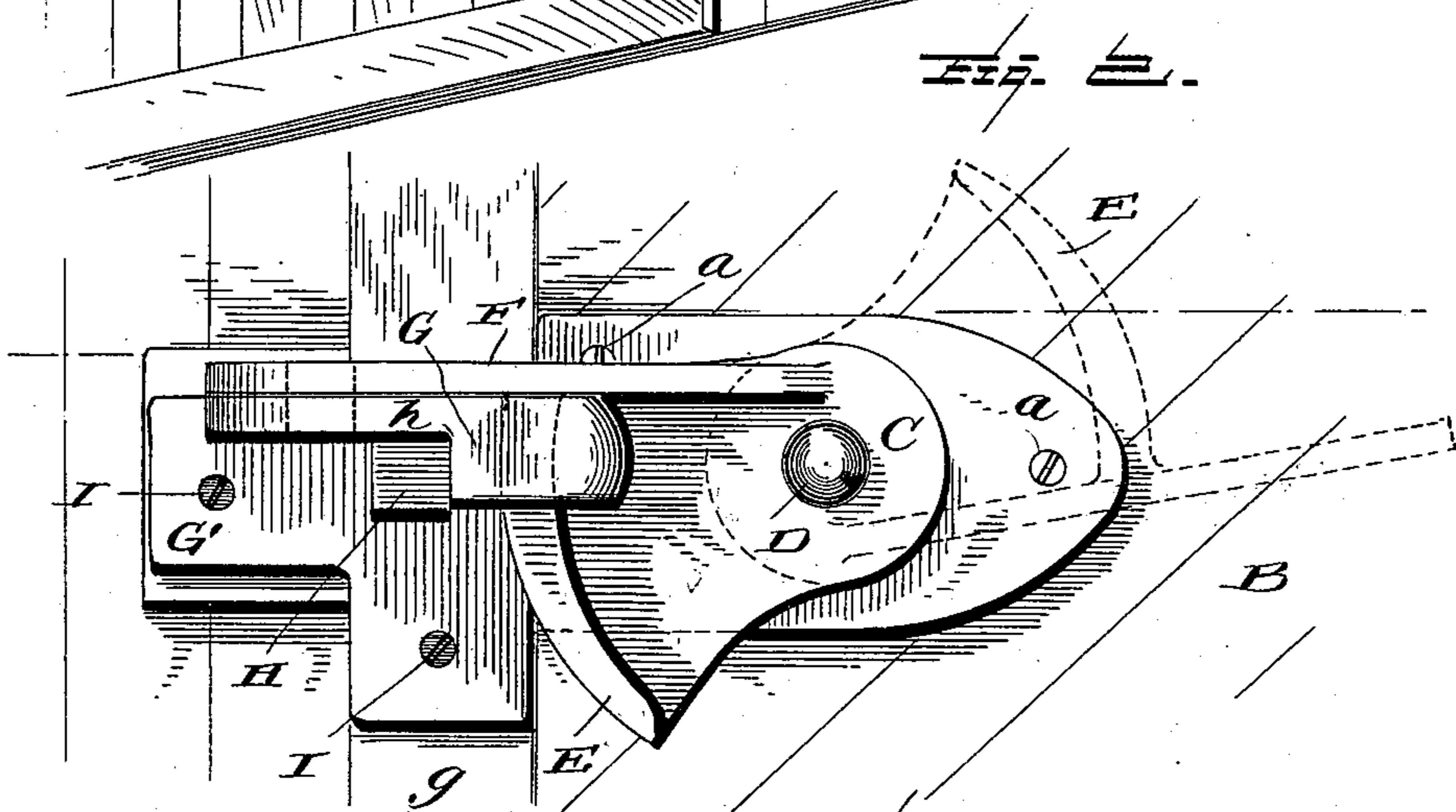
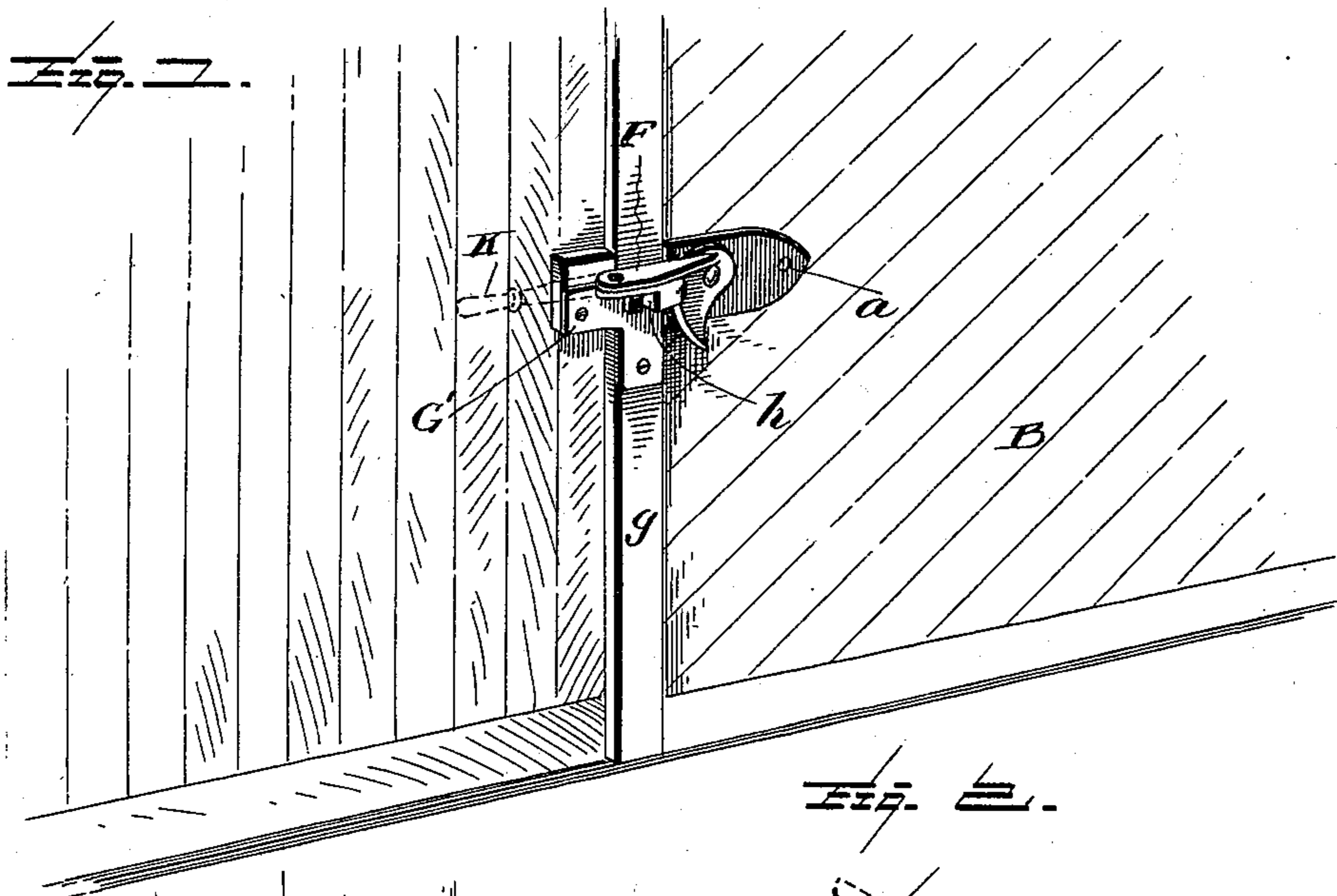


(No Model.)

P. FARWELL.
SLIDING DOOR FASTENER.

No. 594,173.

Patented Nov. 23, 1897.



Witnesses:
L. C. Mills.
E. A. Bond

Inventor:
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by E. B. Stocking
Att'y.

UNITED STATES PATENT OFFICE.

PULASKI FARWELL, OF FREDERICK, ILLINOIS.

SLIDING-DOOR FASTENER.

SPECIFICATION forming part of Letters Patent No. 594,173, dated November 23, 1897.

Application filed August 5, 1896. Serial No. 601,763. (No model.)

To all whom it may concern:

Be it known that I, PULASKI FARWELL, a citizen of the United States, residing at Frederick, in the county of Schuyler, State of Illinois, have invented certain new and useful Improvements in Locks for Sliding Doors, of which the following is a specification, reference being had therein to the accompanying drawings.

10 This invention relates to certain new and useful improvements in locks for sliding doors, and although in this instance it is shown as applied to a car-door, it is evident that the same is not at all restricted to such use.

15 It has for its object to provide a novel, simple, and cheap construction of door-fastening embracing a hook and a latch so formed as to act in two directions—namely, to draw and press the door up against the jamb and also
20 to draw or force it up tight to the hook—and also to provide means for sealing the hook and latch together when they are engaged.

It has also for a further object to materially improve the details of construction of such a
25 fastening.

The invention consists in the novel construction, combination, and arrangement of parts hereinafter more fully described, and afterward specifically pointed out in the claims.

30 Other objects and advantages of the invention will hereinafter appear in the following description, and the novel features thereof will be particularly pointed out in the appended claims.

35 The invention is clearly illustrated in the accompanying drawings, which, with the letters of reference marked thereon, form a part of this invention, and in which—

40 Figure 1 is a perspective view showing the fastening applied and the door locked. Fig. 2 is an enlarged elevation of the parts in their locked position. Fig. 3 is a view, partly in section and partly in top plan, looking down upon the parts in their unlocked position; and
45 Fig. 4 is a modification showing a form of hook in which the bolt has an eye and the head of which is used for the hook-hasps of the lock.

Like letters of reference indicate like parts throughout the several views.

50 Referring now to the details of the drawings by letter, A designates the latch-plate, designed to be secured to the door B in any

suitable manner, as by screws or other means *a*, passed through openings in the plate. This plate is formed with a boss or sleeve *A'*, 55 extending therefrom laterally, and upon which is mounted the latch C. This latch is adapted for pivotal movement upon the bolt D, which is passed through said boss or sleeve and receives upon its inner end the nut *d*. 60 This latch is formed along one edge or end with a cam portion E, which is inclined in two directions, as seen clearly in Figs. 2 and 3, the incline upon its upper or outer face being for the purpose of drawing the door up 65 to the jamb and the incline upon its inner face being for the purpose of drawing the door up to the hook, the drawing action in both directions being simultaneous and accomplished as the latch is moved upon its 70 pivot. This latch is shown as formed with an extension or lug F, joining the enlarged end of the cam portion and having an opening *f*, as seen best in Fig. 3, through which the seal or lock or other device may be passed when 75 the parts are in their locked or closed position.

G is the hook, and G' the hook-plate, integral therewith or rigidly secured thereto. This is designed to be fastened upon the door-frame or upon a stationary part *g*, and the 80 main fastening thereof is a large lag-screw H, located at the angle *h*, as shown, and having a square head so disposed that the entire hook and plate all have to be turned together. Then after it is screwed up tight to its place 85 screws or analogous means I are passed through the plate, as shown in Figs. 1 and 2, whereby it is securely held. This prevents removal of the plate and hook by removal of the screws I when the device is locked. The 90 lock and plate are provided with an extension or flange J, having an opening *j* and against which flange the arm or handle F' of the latch is designed to lie when the parts are in their locked position, and the two open- 95 ings *f* and *j* come coincident with each other to receive the seal, the lock, or any other device which it may be designed to employ. The latch-plate may be sometimes provided with a handle K, as indicated in dotted lines 100 in Fig. 1, by which the same may be more readily manipulated.

The operation will be readily understood from the foregoing description when taken

in connection with the annexed drawings, and a further detailed description of which is not deemed necessary.

I may sometimes employ the form of hook indicated in Fig. 4, in which the hook portion G is as before; but the plate is secured by the lag-screw L and by the screw-eye M, the eye *m* of which serves the same purpose as the flange J, with its opening *j*, the eye *m* being adapted to be coincident with the openings *f* in the handle F when the parts are closed and receives the seal or lock or other device.

Other modifications in detail may be resorted to without departing from the spirit of the invention or sacrificing any of its advantages.

It is evident that the parts may be reversed—that is, the hook placed upon the door and the latch and its plate upon the stationary part, the operation being the same.

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

25 1. A sliding-door fastener comprising a

hook having an opening therethrough, a pivoted latch provided with a cam-flange thereon constructed to engage the hook and tapered in two directions at right angles to each other to draw the door toward the hook and at the same time press it against the jamb, said latch having an extension with an opening coincident with an opening in the hook, substantially as described.

2. A sliding-door fastener comprising a plate provided with a hook extending therefrom and a flange extending at right angles from the plate, a lag-screw having a polygonal head located in the angle formed by the hook and flange and a pivoted latch to engage said hook so as to prevent rotation of the plate and lag-screw, substantially as described.

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

PULASKI FARWELL.

Witnesses:

GRANT CONINGHAM,
J. W. FAGAN.