

(No Model.)

P. F. FLEMING.
LATCH.

No. 591,396.

Patented Oct. 12, 1897.

Fig. 1.

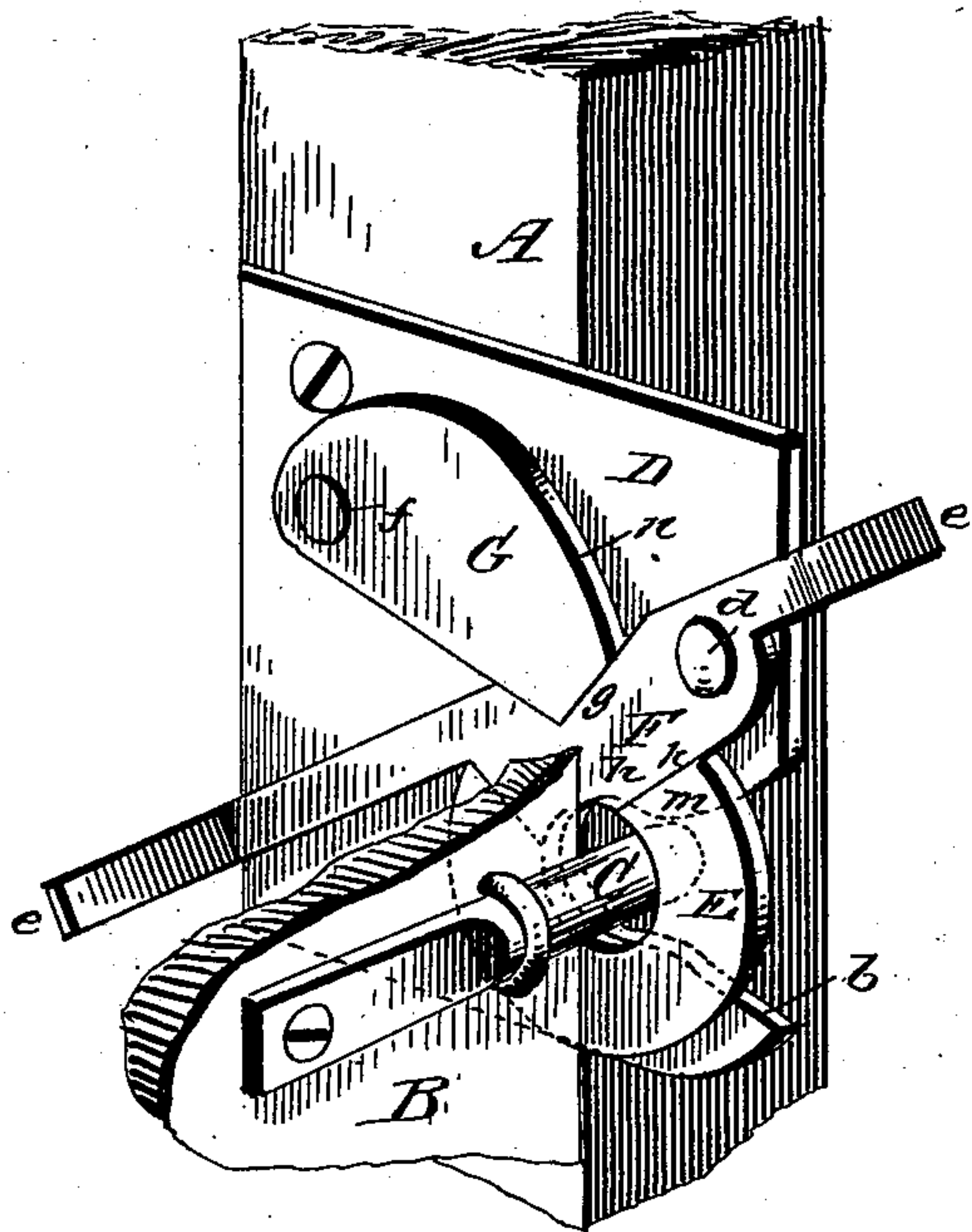
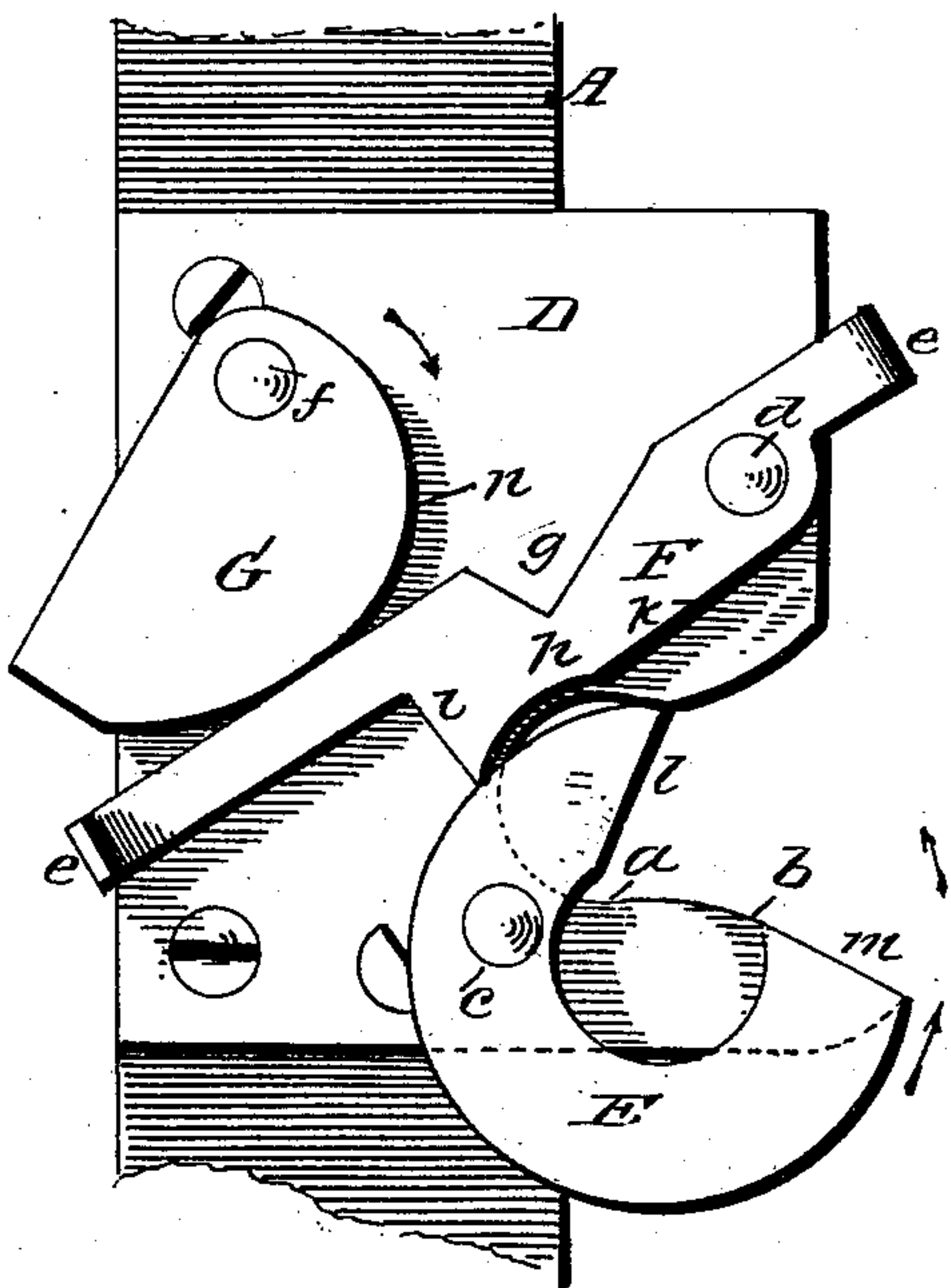


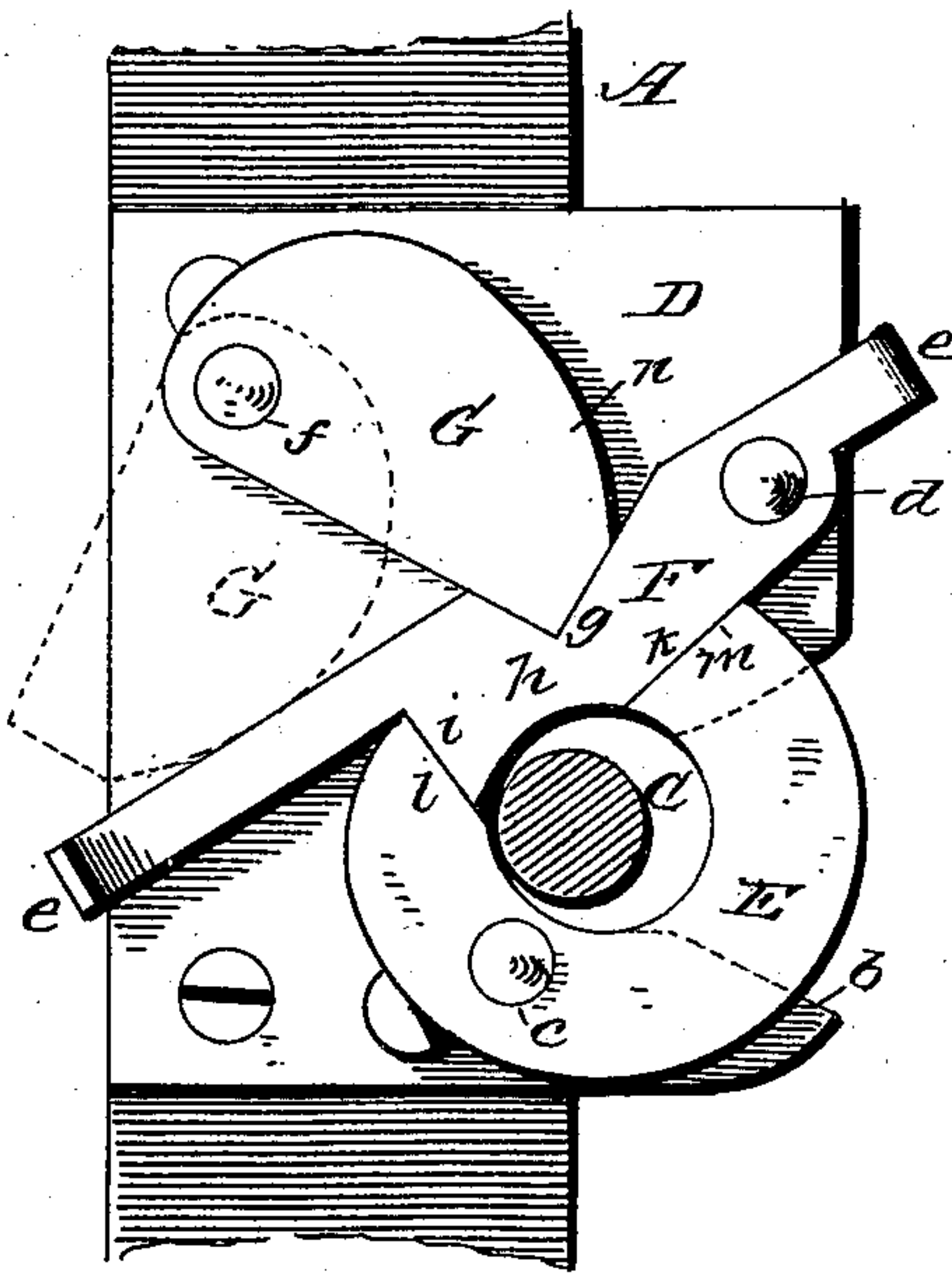
Fig. 2.



Witnesses

Wm. Williamson
Wm. B. Goff

Fig. 3.



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LATCH.

SPECIFICATION forming part of Letters Patent No. 591,396, dated October 12, 1897.

Application filed June 23, 1897. Serial No. 641,876. (No model.)

To all whom it may concern:

Be it known that I, PETER F. FLEMING, a citizen of the United States, residing at Huntsville, in the county of Randolph and State of Missouri, have invented certain new and useful Improvements in Gate-Latches; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters of reference marked thereon.

The present invention has for its object to provide a combined latch and lock equally applicable to barn and other doors, also gates and other uses to which a device of this character would be found useful; and it consists in the several details of construction substantially as shown in the drawings and hereinafter described and claimed.

Figure 1 of the drawings represents a perspective view of my improved latch and lock, showing the relative position of the parts when the door or gate is locked; Fig. 2, a side elevation showing the relative position of the parts when the door or gate is unlocked; Fig. 3, a side elevation of Fig. 1, showing the bolt in section and the gravitating cam-locking dog in dotted lines, which position it will assume when the door or gate is closed and the device used as a latch.

In the accompanying drawings, A represents a portion of a door-jamb or gate-post, as the case may be, and B a portion of a door or gate provided with a suitable bolt C of any desirable construction and secured thereto in any preferred manner. A base-plate D is secured to the part A by screws or other suitable means, to which plate the several operating parts of the device are pivoted. This plate D has an opening *a* to receive the end of the bolt and increases in size as it extends out to the edge of the plate, it being greater in width to form a flaring opening, so that the bolt can easily enter the opening by riding over the inclined bearing *b*. To the plate D and directly over the opening is a segmental keeper E, which is pivoted at *c* to the plate. As will be seen, this segmental keeper is pivoted eccentrically to the plate or away from the center of

gravity, so that it will fall of its own weight to the position shown in Fig. 2 of the drawings, when the same is released by the raising of the locking-lever F from engagement therewith. The lever F is also pivoted away from its center, as shown at *d*, thus rendering it a gravitating-lever. A gravitating cam-locking dog G is pivoted at *f* to the plate D, and its free end engages with a notch *g* on the locking-lever F, as shown in Figs. 1 and 3 of the drawings. The cam side of the dog G is shown at *n*, and when the lever is in engagement with the keeper it fills the space at the ends thereof by means of the extension *h* upon said lever, which is provided with bearing-faces *i k* to correspond with the inclines *l m*, respectively, upon the ends of the keeper.

When the door or gate is being closed and the operating parts of the device in the position shown in Fig. 2 of the drawings, the end of the bolt as it comes against the end *l* of the keeper will force the keeper in the direction of the arrows, and by so doing the lever F will be raised by the keeper and in turn the dog by the lever. As the lever F presses up against the dog G through the medium of the cam *n* the dog will be raised until it comes to a certain position, when it will fall by gravity to engage with the notch *g* upon the lever F, thus forming an absolute lock to hold the door or gate closed until the lever is released from engagement with the keeper E by first releasing the dog G by hand.

When used simply as a latch, the dog G would be in the position represented in dotted lines of Fig. 3, which will hold the lever F in engagement with the keeper E, and to release the door or gate the lever is raised sufficiently to disengage the keeper therewith, the cam upon the dog allowing of this elevation of the lever. Handles *e* at the ends of the lever may be provided for convenience of raising the same.

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

A gate or other latch consisting of a suitable base-plate having an opening to receive the end of the bolt, a segmental keeper eccen-

trically pivoted thereto, a pivoted locking-lever adapted to engage the open ends of the keeper, a pivoted gravitating dog having a cam-face against which the lever bears in
5 raising it, said dog adapted to engage with and positively lock the lever, substantially as and for the purpose set forth.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

PETER F. FLEMING.

Witnesses:

C. B. SHAEFER,

W. O. RUTHERFORD.