

(No Model.)

O. B. HOFFMAN.
DOOR SECURER.

No. 525,418.

Patented Sept. 4, 1894

Fig. 1.

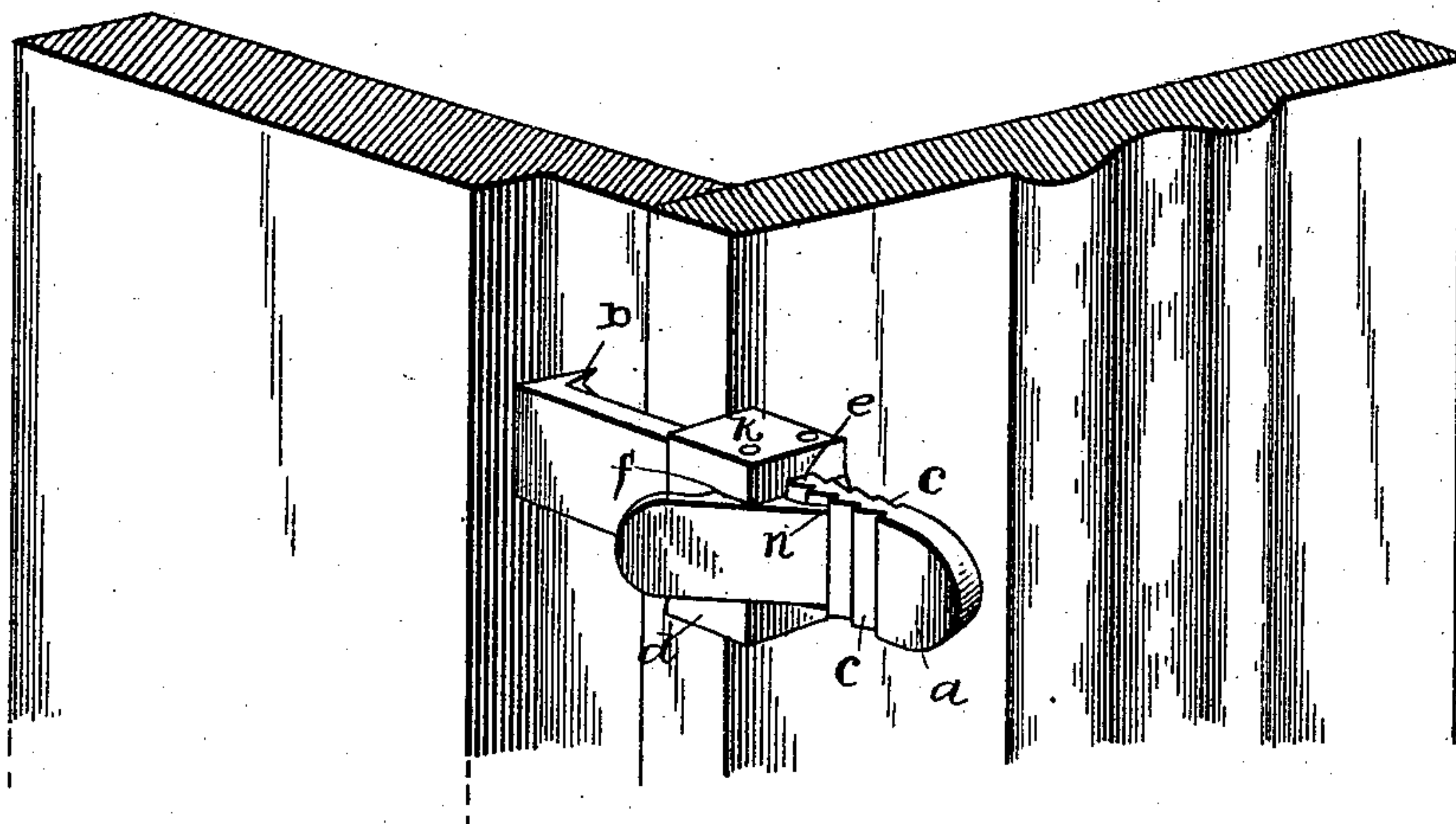


Fig. 2.

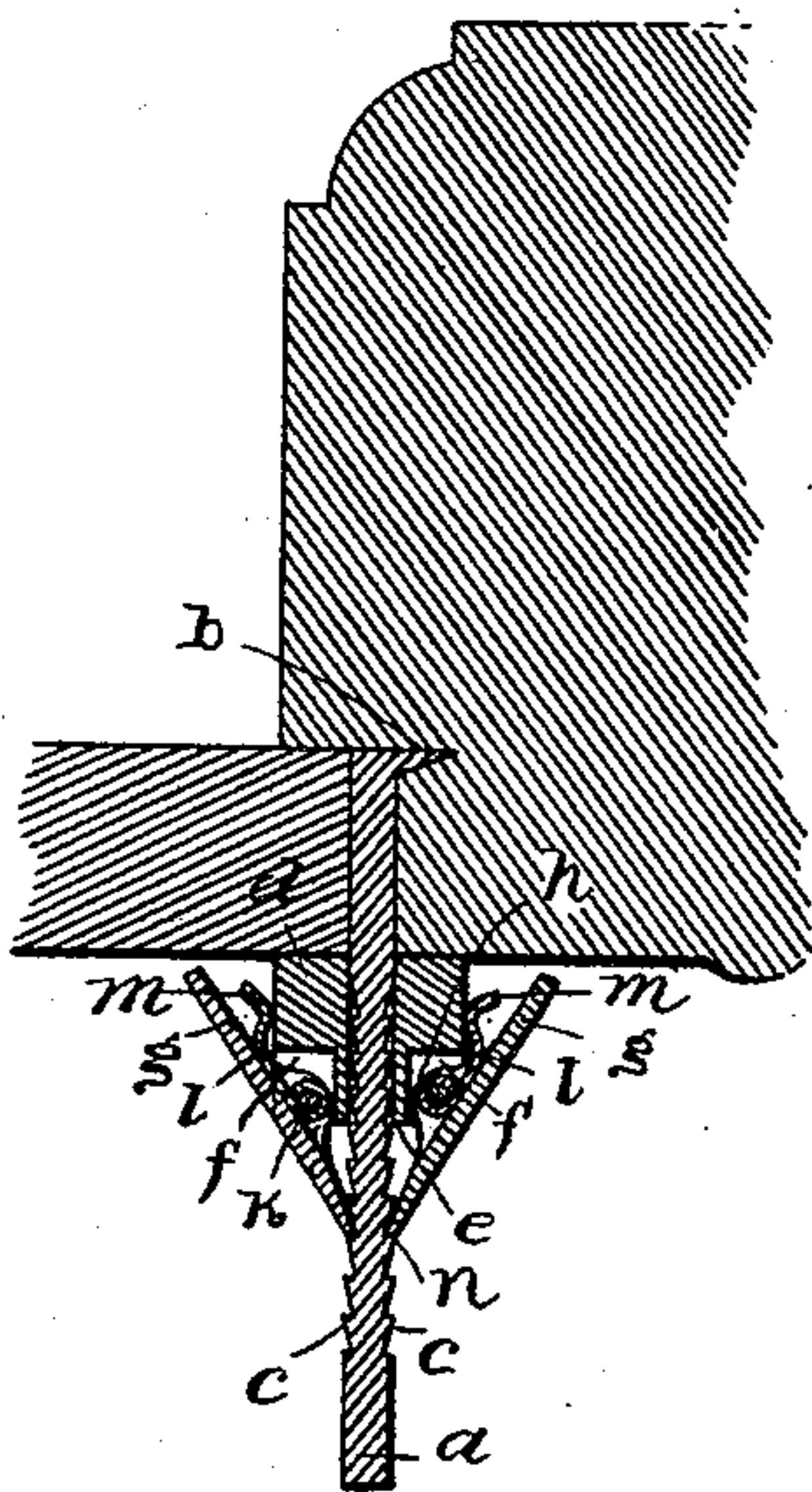


Fig. 3.

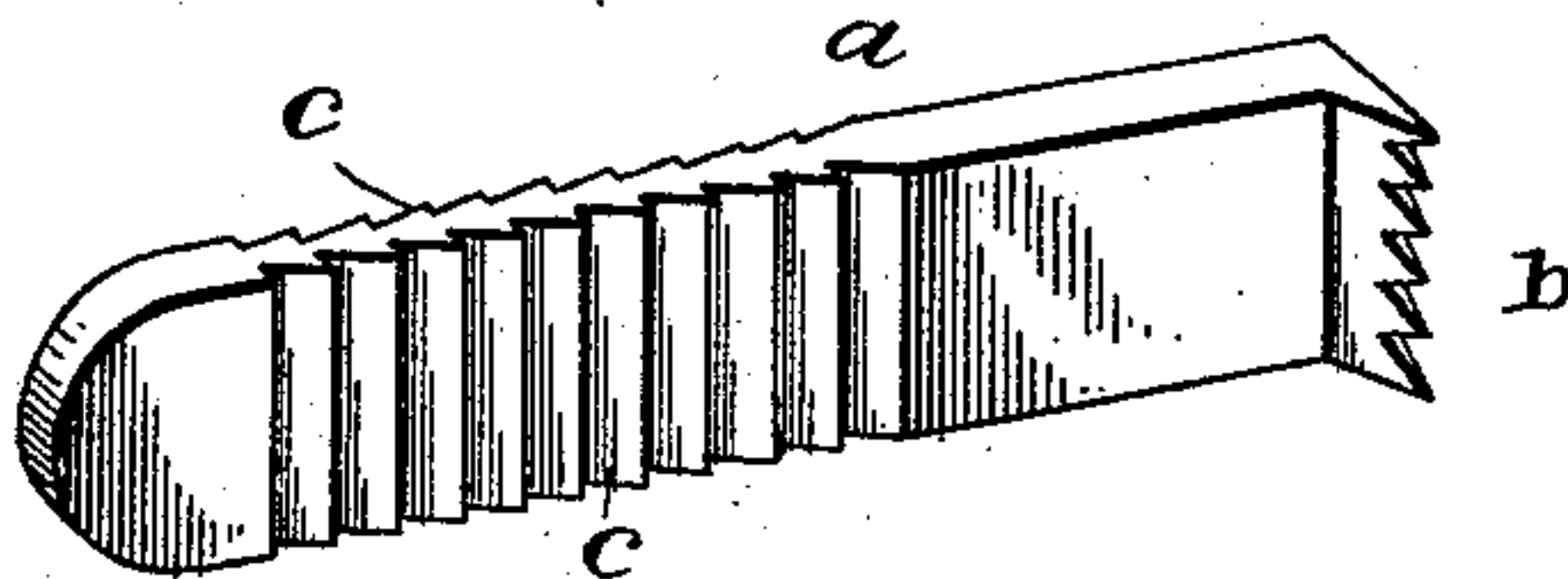


Fig. 4.

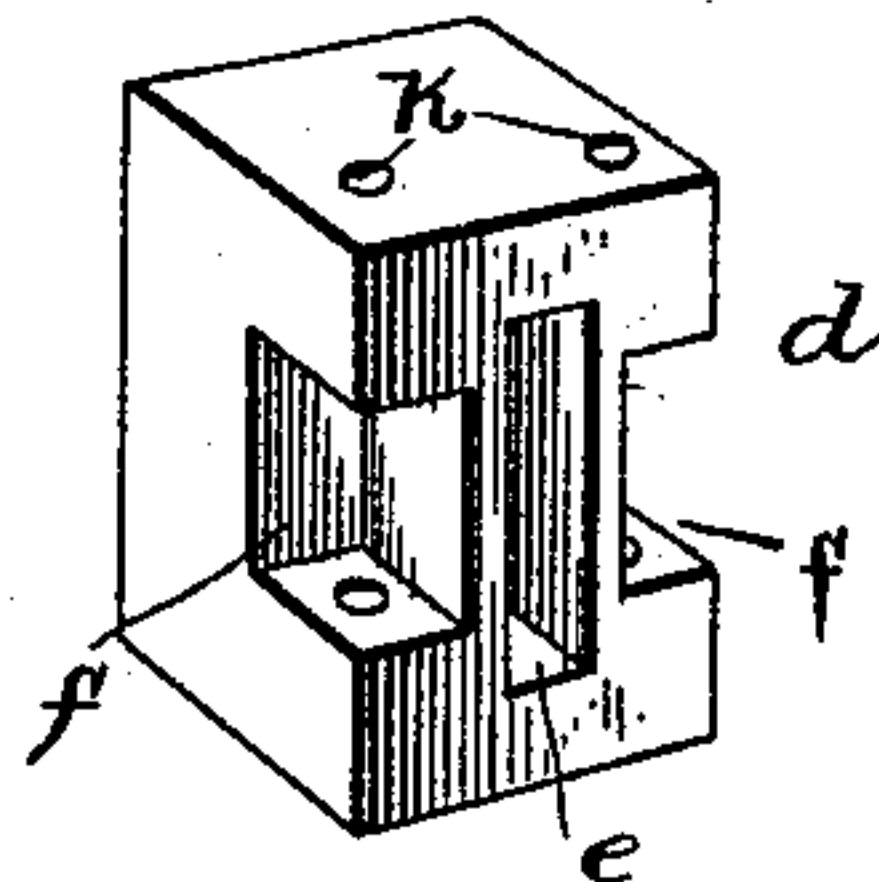
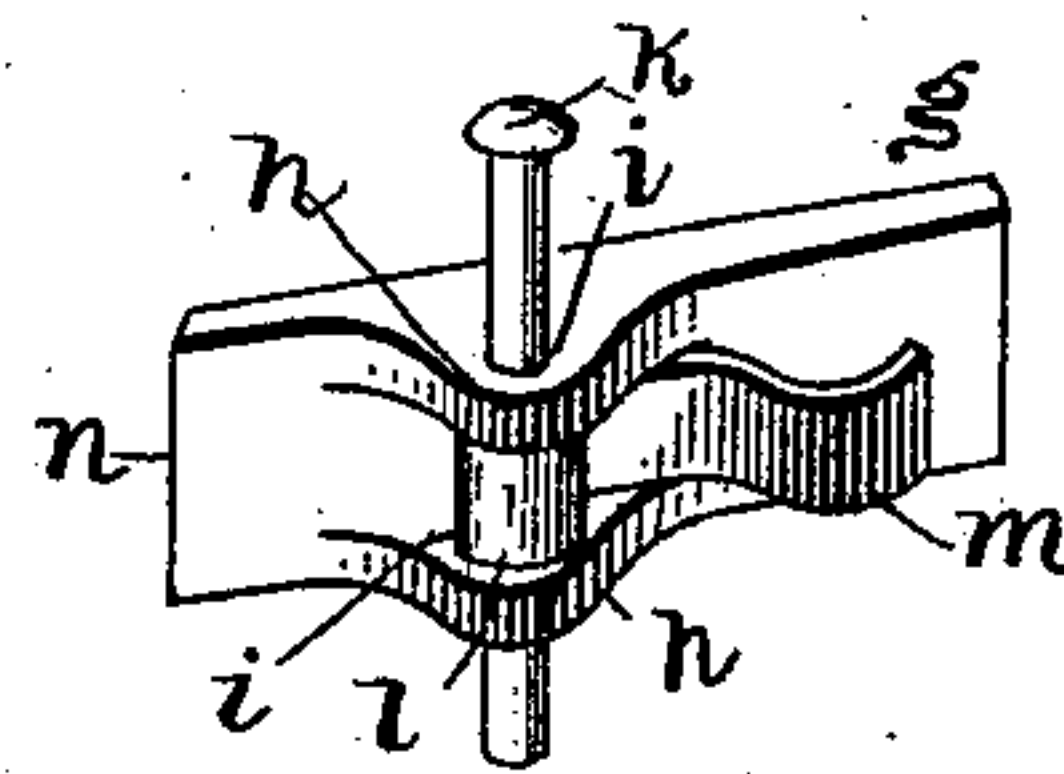


Fig. 5.



Inventor

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UNITED STATES PATENT OFFICE.

OLIVER B. HOFFMAN, OF BLOOMSBURG, PENNSYLVANIA.

DOOR-SECURER.

SPECIFICATION forming part of Letters Patent No. 525,418, dated September 4, 1894.

Application filed March 22, 1894. Serial No. 504,707. (No model.)

To all whom it may concern:

Be it known that I, OLIVER B. HOFFMAN, a citizen of the United States, residing at Bloomsburg, in the county of Columbia and State of Pennsylvania, have invented a new and useful Door-Securer, of which the following is a specification.

The invention relates to improvements in door securers.

The object of the present invention is to simplify and improve the construction of door securers, and to provide an inexpensive one which will be adapted to be readily applied to any ordinary form of swinging door, and which will be capable of firmly locking the same.

The invention consists in the construction and novel combination and arrangement of parts hereinafter fully described, illustrated in the accompanying drawings and pointed out in the claim hereto appended.

In the drawings: Figure 1 is a perspective view of a door securer constructed in accordance with this invention. Fig. 2 is a horizontal sectional view of the same showing the door securer applied in operative position to a door. Fig. 3 is a detail perspective view of the ratchet bar. Fig. 4 is a similar view of the adjustable rectangular block. Fig. 5 is a detail perspective view of one of the pawls.

Like letters of reference designate corresponding parts in all the figures of the drawings.

Referring to the drawings, *a* designates a ratchet bar, designed to have its front portion inserted between the free edge of a door and its casing, when the door is closed; and it is provided at its engaging end with a laterally disposed spur or lug *b*, designed to be embedded in the casing of the door, whereby the bar is firmly held against withdrawal. The projecting portion of the bar *a* is provided at opposite sides with forwardly shouldered teeth *c*, which are engaged by oppositely disposed rearwardly converging pawls *g* pivoted at opposite sides of a rectangular metal block *d* slidingly mounted on the ratchet bar. The rectangular metal block is provided with a central rectangular opening *e* to receive the ratchet bar; it projects laterally from opposite sides of the same; and it is inserted on the bar after the same has

been applied to the door and the latter closed; and its front face is flat, and is adapted to bear squarely against the door and its casing. The ratchet bar when applied to the door projects horizontally therefrom and the rectangular metal block is adapted to be moved inward or forward on the bar until its front face bears against the front casing. The metal block is provided at its rear side at opposite sides of the opening *e* with rectangular recesses *f* and has vertical perforations receiving pivots *k*, which secure the pawls *g* to the block. The pawls are provided at their inner faces with integral bosses or lugs, which are perforated to form eyes *i* and are located in the recesses *f* of the block. The converging pawls project rearward from the block and engage the forwardly shouldered teeth *c*, and they terminate at their front ends at opposite sides of the block in convenient position to be operated. The engaging ends of the pawls are held in contact with the ratchet bar by springs *m*, which are curved and provided with eyes *l* receiving the pivots *k* and located between the eyes *i* of the pawls. The curved portions of the springs engage the outer side faces of the rectangular metal block and throw the engaging ends of the pawls against the ratchet bar. When it is desired to adjust the block, which is detachable, it is only necessary to compress the front terminals of the pawls between the thumb and finger to throw their rear ends outward, and the block may be moved forward or rearward on the ratchet bar, or be entirely detached therefrom.

It will be seen that the door securer is exceedingly simple and inexpensive in construction, that it possesses great strength and durability as the metal rectangular block is solid and projects laterally from each side of the ratchet bar, and that the metal block may be readily adjusted on the ratchet bar by simply compressing the pawls at its sides, and that as soon as the pawls are released they automatically engage the ratchet bar. It will also be apparent that the door securer may be readily carried while traveling, that it is adjustable to any ordinary swinging door, that it forms a solid stop for preventing the door from opening and that it is adjusted rapidly and easily.

Changes in the form, proportion and the minor details of construction may be resorted to without departing from the spirit or sacrificing any of the advantages of the invention.

What I claim is—

A door securer comprising a ratchet bar provided at its front end with a laterally projecting spur and having at its rear portion at opposite sides forwardly shouldered teeth, the detachable rectangular metal block slidably mounted on the ratchet bar and provided with an opening receiving the same and provided at its rear side with recesses located at opposite sides of the ratchet bar opening, the rearwardly converging pawls located at opposite sides of the block and provided with eyes arranged in the recesses of

the block, the front ends of the pawls terminating at opposite sides of the block and the rear ends of the same engaging said teeth, pivots passing through the block and the eyes of the pawls, and the springs interposed between the pawls and the block and holding the former in engagement with the ratchet bar and provided with eyes located between the eyes of the pawls and receiving the pivots, substantially as described.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of two witnesses.

OLIVER B. HOFFMAN.

Witnesses:

J. C. RUTTER, Jr.,

W. L. CRIST.