

(No Model.)

M. R. KENNEDY.
DOOR CHECK.

No. 544,730.

Patented Aug. 20, 1895.

Fig. 1.

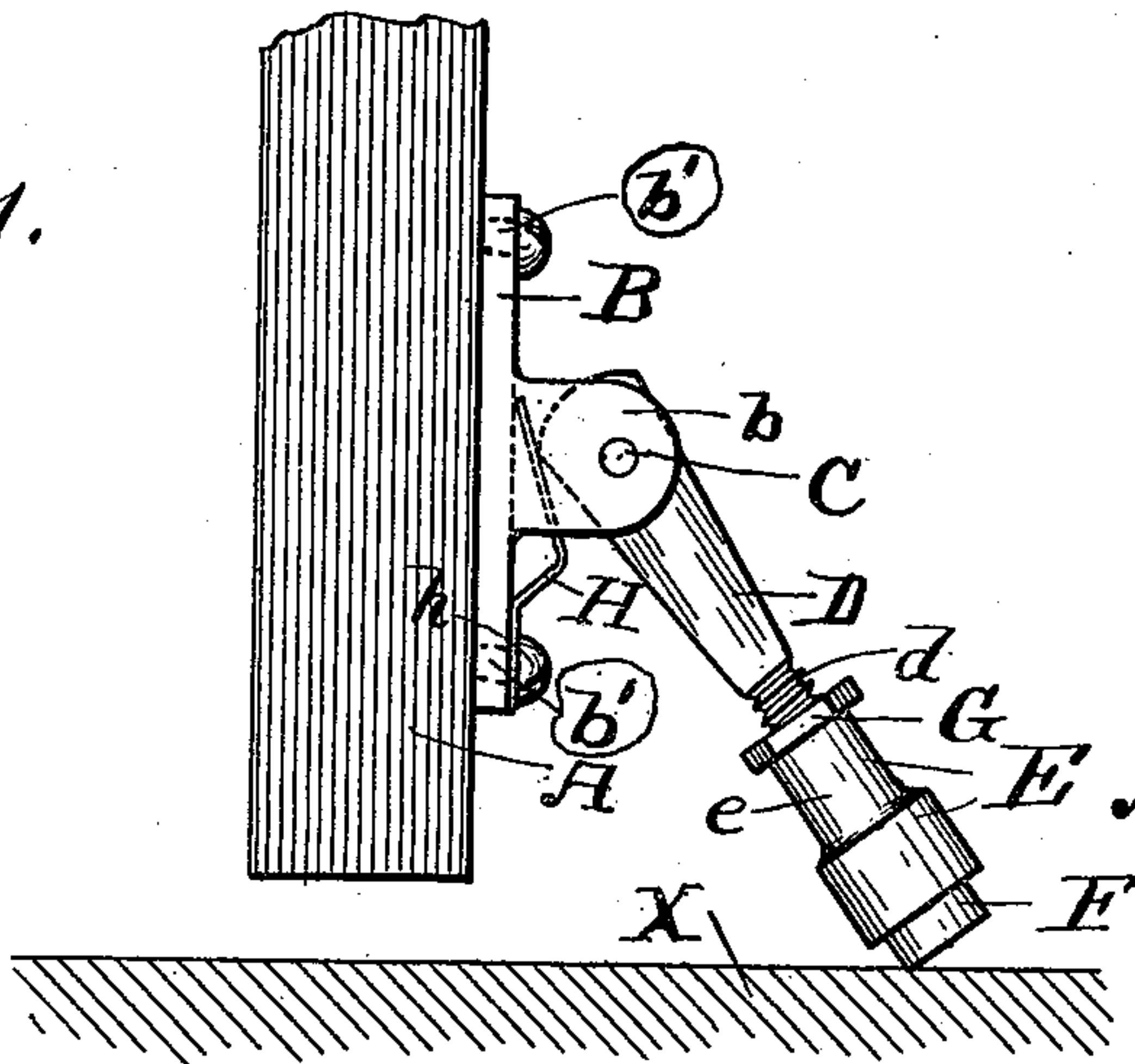


Fig. 2.

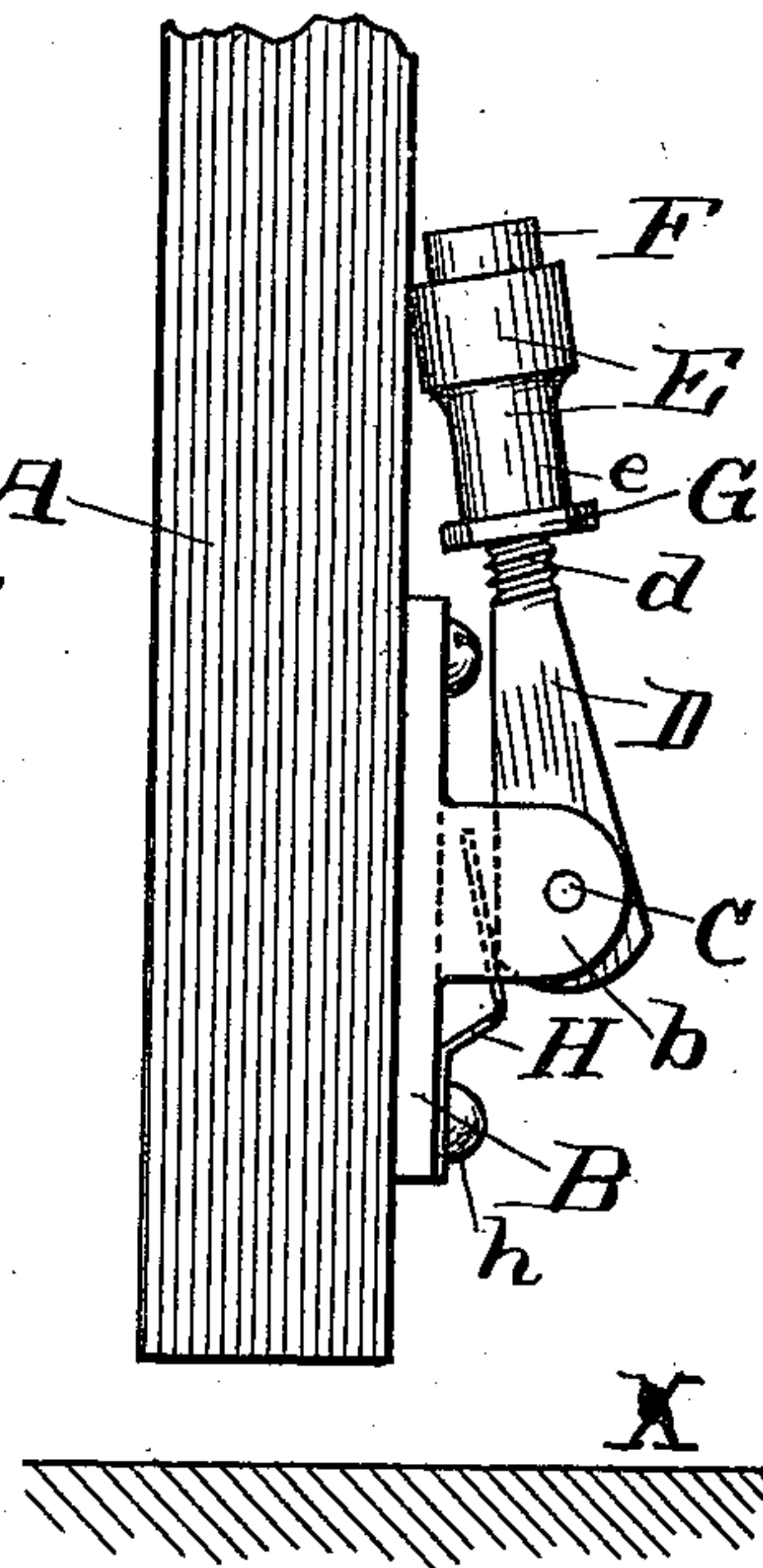


Fig. 3.

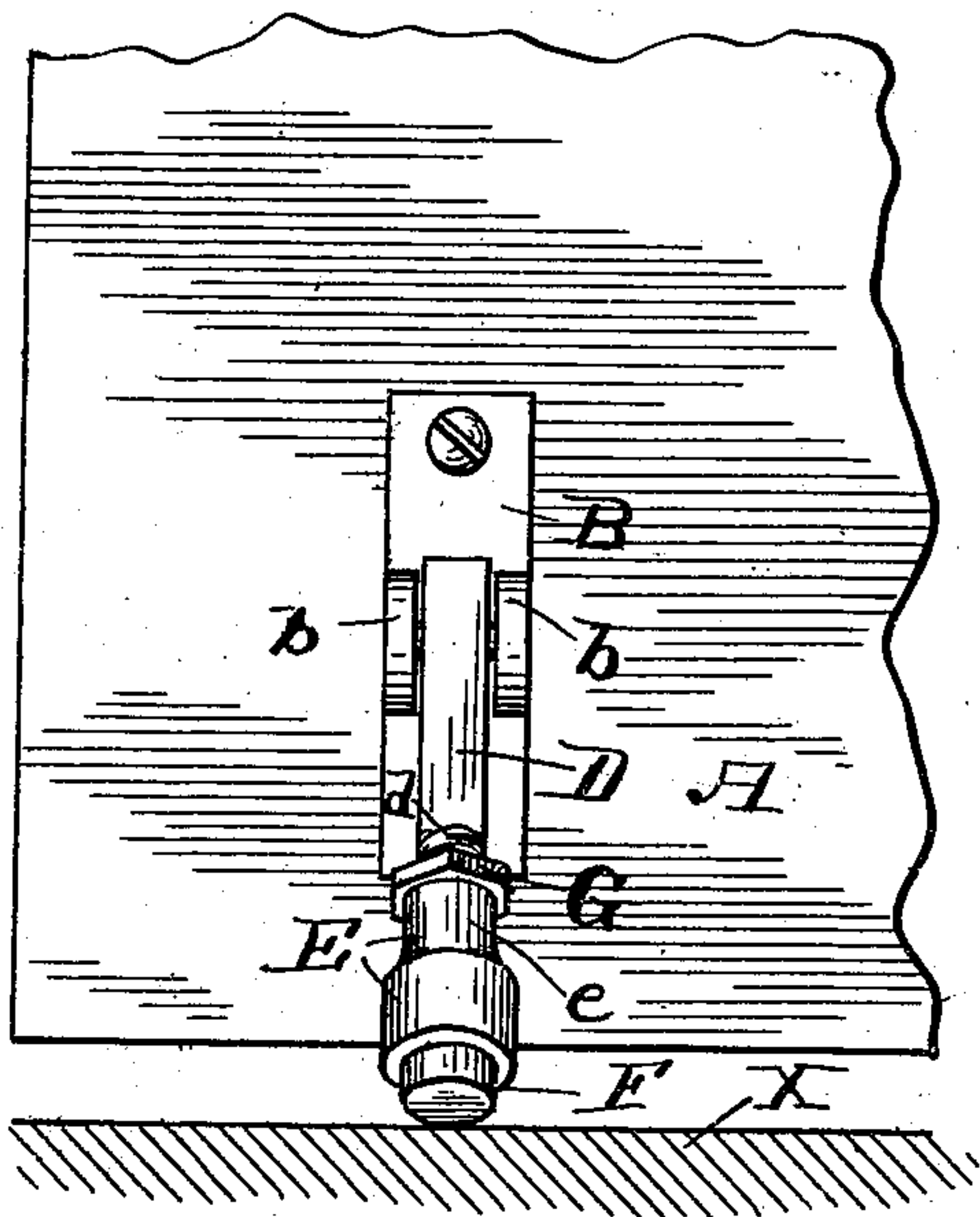


Fig. 5.

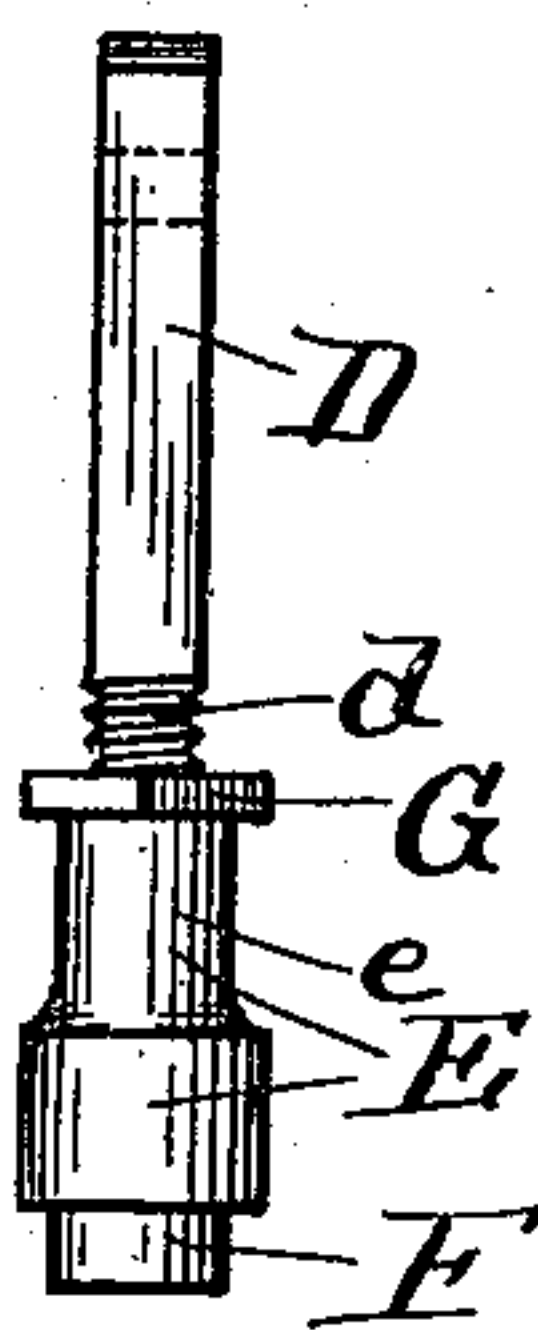
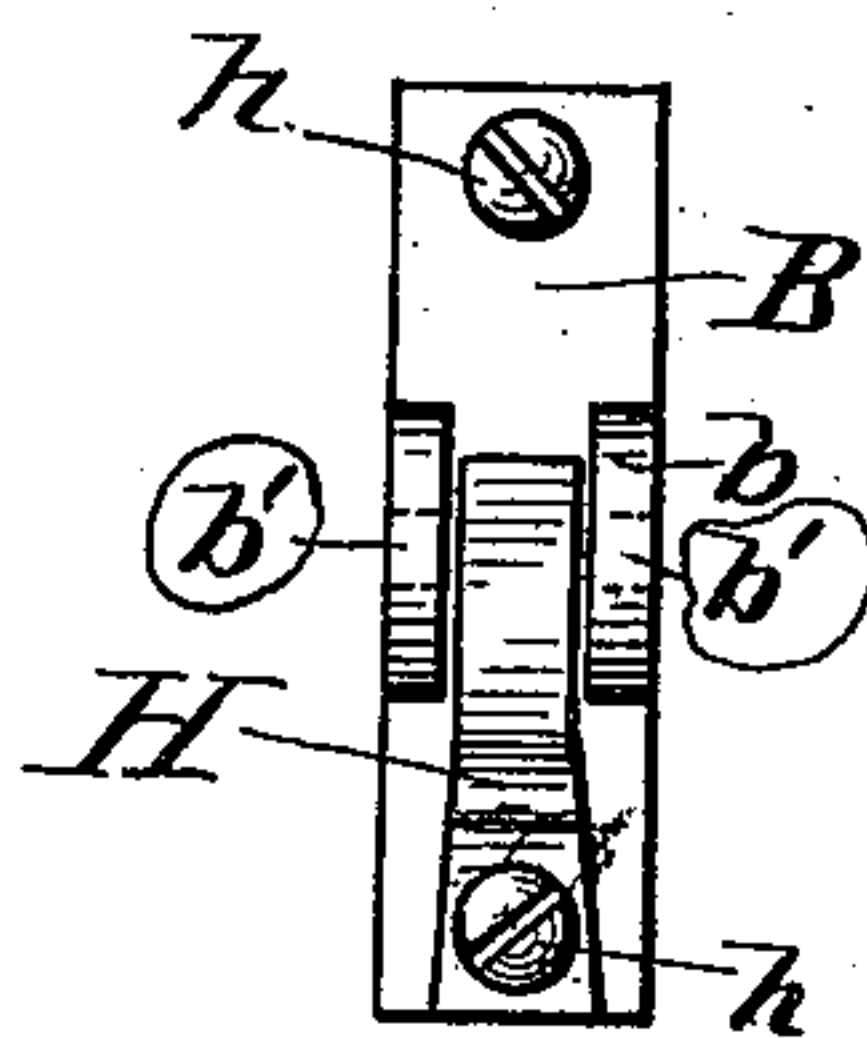


Fig. 4.



Witnesses:

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MOSES R. KENNEDY, OF CHICAGO, ILLINOIS.

DOOR-CHECK.

SPECIFICATION forming part of Letters Patent No. 544,730, dated August 20, 1895.

Application filed July 16, 1894. Serial No. 517,674. (No model.)

To all whom it may concern.

Be it known that I, MOSES R. KENNEDY, a resident of Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in a Door-Stop, of which the following, when taken in connection with the drawings accompanying and forming a part hereof, is a full and complete description sufficient to enable those skilled in the art to which it pertains to make and use the same.

The object of my invention is to obtain a device by which, when the same is attached to a door, such door can and will, when opened, be stopped and held open, and the nature of my invention consists in the arrangement and combination in a door-check of the following elements—that is to say, in the fulcruming a lever to a base, the base being arranged to be secured to the side of a door, and the lever being so arranged that when in an operative position the greater the pressure on the door to close the same the greater the resistance of the lever to the closing thereof; in constructing the lever so that it can be easily adjusted to a change in the length thereof, whereby unevenness of the floor will not prevent the convenient use of the device and the base need not be so carefully adjusted and secured on the door as would otherwise be required; in making suitable provision so that the end of the lever in contact with the floor when the device is in use will catch or hold thereto, and in providing means whereby the end of the lever designed to come in contact with the floor when the device is in use will be yieldingly pressed against such floor, and when not in use will be yieldingly held in an inoperative position.

The device embodying my invention is particularly applicable for use on doors having self-closing springs or having cords and weights tending to close the same, but as will be hereinafter described, it can be used in connection with doors having no self-closing devices attached thereto.

In the drawings referred to as accompanying and forming a part of this specification, Figure 1 is a side elevation of a device embodying my invention, such device being attached in place on a door with the end view of a portion of the door and a section of the

floor against which one end of the movable or working parts of the device is in contact; Fig. 2, a like view, in side elevation, of the device secured in place on a door, with the movable or working parts of the device thrown up into an inoperative position; Fig. 3, a front elevation of the device with the working or movable parts thereof down in an operative position; Fig. 4, a front elevation of the base of the device and of a spring attached thereto with the working or movable parts of the device removed, and Fig. 5 a front elevation of such working or movable parts.

The same letter of reference is employed to designate a given part throughout the several figures of the drawings where more than one view thereof is shown.

Doors to which this device is attached are hung in the ordinary way of hanging doors, so as to swing on the hinges thereof a short distance above the floor or pavement, and X is such floor or pavement.

A is the door.

B is the base of the device.

b b are lugs or ears on base B, and *b' b'* are holes in the base through which screws or nails extend to fasten the base to door A.

C is a pin extending through ears *b b*, and serving as a fulcrum for lever or arm D.

d d are screw-threads on one end of arm or lever D.

E is a sleeve having screw-threads therein at end *e* thereof, adapted to fit over the screw-threads on arm or lever D, and at the other end adapted to receive the rubber shoe F. Sleeve E is adjustable by means of the screw-threads in end *e* thereof, fitting over the screw-threads *d* on lever D; and G is a jam-nut having screw-threads thereon fitting over screw-threads *d*, and adapted to be turned or jammed against the end *e* of sleeve E, and so hold it firmly in an adjusted position.

H is a spring secured by rivet *h* to base B, and adapted to hold lever D in substantially the position thereof illustrated in Fig. 1, so that the rubber F will come in engagement with the floor X when door A is swung inwardly or to close it; and such spring H is also adapted to hold lever D in the position thereof illustrated in Fig. 2, when the device is desired to be in an inoperative position.

As is well known to those skilled in the art

of carpentry, the unevenness of floors or pavements is oftentimes such that the bottom edge of a door in the swinging thereof in opening or closing is not at all times an equal distance from such floor, and hence the adjustable feature of the door-stop embodying my invention, provided for by the sleeve E fitting over the screw-threads d on lever or arm D, enables one to readily set the device so that the door can be held at any given point in the opening thereof against closing. As a rule, however, when the device has been placed upon a door and adjusted by turning the sleeve E on screw-thread d , no change in the adjustment will be required to hold the door at any point in its swinging, and jam-nut G is provided to set against sleeve E and so prevent its accidental movement. By reason of the adjustability of the sleeve E much less care is required in attaching the device to a door in reference to the position of the base B on such door than would otherwise be necessary.

Where the door to which the device is secured has no spring or other self-closing device attached thereto, the sleeve E should be so adjusted on lever D as that when the rubber F is in contact with the floor the door can be swung inwardly, turning such lever D on its fulcrum C into about the position indicated by the dotted lines in Fig. 1. The door

will then be held with sufficient firmness by the door-stop so that it will not be moved in either way—that is, to be opened or closed—by an ordinary wind, while at the same time by forcing the door open and bringing the lever back into substantially the position illustrated in Fig. 1 by the full lines and then throwing the lever into the position illustrated in Fig. 2, the door can be closed.

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

A door-stop consisting of a base having ears thereon, a lever fulcrumed between the ears on a pin extending through such lever and ears, a spring, one end whereof yieldingly presses against the lever and the other end whereof is against the base, an adjustable sleeve on the free end of the fulcrumed lever, forming a part of the lever, rubber secured to one end of the sleeve, and means for securing the adjustable sleeve rigidly in place on the lever after adjustment, thereby maintaining the desired length to the lever between the fulcrum thereof and the point in contact with the floor; substantially as described.

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