

No. 615,034.

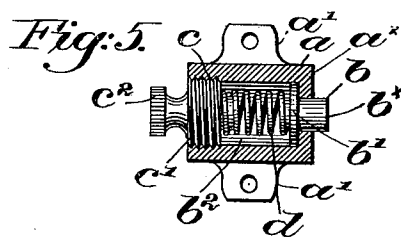
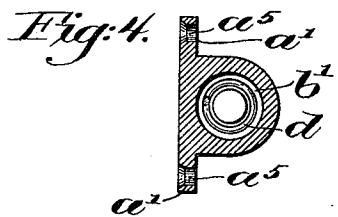
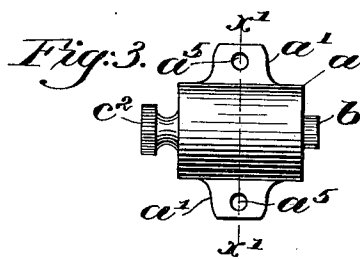
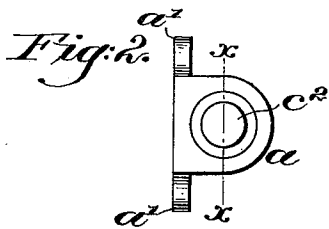
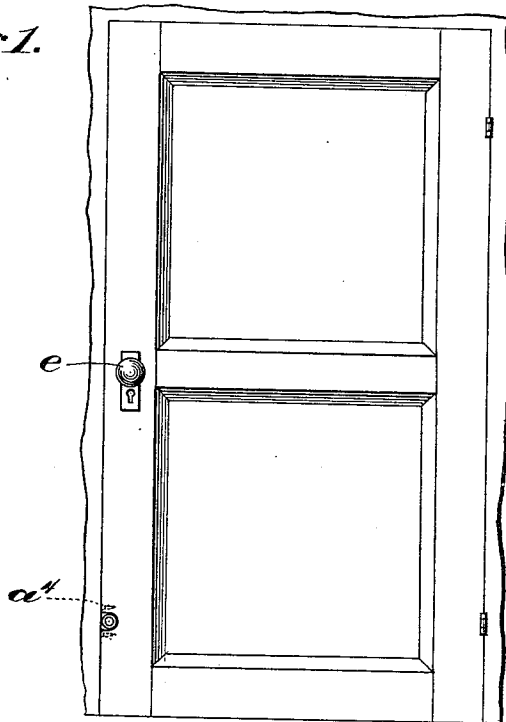
Patented Nov. 29, 1898.

N. C. MERRILL.
DOOR CHECK.

(Application filed Feb. 21, 1898.)

(No Model.)

Fig. 1.



Witnesses.
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UNITED STATES PATENT OFFICE.

NATHANIEL C. MERRILL, OF NEW YORK, N. Y., ASSIGNOR OF TWO-THIRDS TO ALVA M. MERRILL AND WILLIAM J. HOWLETT, OF BOSTON, MASSACHUSETTS.

DOOR-CHECK.

SPECIFICATION forming part of Letters Patent No. 615,034, dated November 29, 1898.

Application filed February 21, 1898. Serial No. 671,021. (No model.)

To all whom it may concern:

Be it known that I, NATHANIEL C. MERRILL, of New York, county of New York, and State of New York, have invented an Improvement in Door-Checks, of which the following description, in connection with the accompanying drawings, is a specification, like letters on the drawings representing like parts.

This invention has for its object the production of a novel door-check or a check to obviate slamming of the door.

My improved door-check is adapted to be applied to the edge of a door, and it presents at the inner edge of the door a spring-pressed plunger to contact with the jamb of the door as the door is being closed, and the spring cooperating with this plunger has combined with it devices by which the stress of the spring may be increased or diminished, according to the requirements of the door, its weight, &c.

Figure 1 shows a hung door with one of my improved checks applied thereto. Fig. 2 shows an inner end view of the door-check. Fig. 3 shows the said door-check in elevation, looking at its front side. Fig. 4 is a section in the line x of Fig. 2, and Fig. 5 is a section in the line x' of Fig. 3.

My improved door-check is composed of a shell presenting a cylindrical barrel a , with ears a' , said ears having holes for the reception of screws to confine the shell to the door. The cylindrical body a of the shell is bored at its inner end to receive the shank b of a spring-pressed plunger, the head b' of the plunger lying within a hole b^2 in the barrel, the opposite end of the barrel being provided with a series of screw-threads, as c , with which are engaged the threads of a screw-plug c' , said plug having an attached thumb nut or piece c^2 . Between the plug c' and the head of the plunger is interposed a spring d' , and by rotating the screw-plug by or through the engagement by the fingers of the thumb-nut c^2 the stress of the spring d' may be increased or diminished, so that greater or less pressure will be required on the plunger to push the face b^x of its inner end back flush with the face a^x of the body.

To apply my invention to a door, the edge

of the door will be provided with a hole of suitable size to receive the barrel a , and the ears a' will be let into suitable mortises or recesses cut in the edge of the door, and suitable screws a^4 will be put through the holes a^5 of the ears into the edge of the door. The plunger b^x will project from the inner side of the door near its outer edge, and as the door is closed the end b^x of the plunger will contact either with the casing, or a metal plate may be applied to the casing, and the plunger will yield under the action of the spring d' , thus preventing the door itself from striking and slamming against the door casing or jamb, and when the latch of the usual lock applied to the door, said lock having a knob e , of usual shape or kind, comes opposite the striker carried by the door frame or jamb the latch of the lock will spring into the said striker, and the plunger, acting between the door and the casing, will prevent the door from rattling.

It is of the greatest importance that the plug c' be made adjustable, for otherwise the plunger cannot be suitably controlled so that it will operate properly, for it will be readily understood that if the spring is not sufficiently stiff the door will strike the casing or jamb; but by rotating the plug a greater or the proper amount of stiffness for the spring may be secured.

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

1. The herein-described door-check, comprising a barrel adapted to be secured to the door, a plunger having an enlarged head fitting within said barrel, a reduced shank extending centrally from said head, the barrel being threaded at one end and having its other end partially closed and provided with a central hole for loosely receiving said reduced shank of the plunger, the extended head of the latter being retained within the barrel by engaging against said closed end about said hole, a screw-plug adjustable in the threaded end of the barrel, and a spring interposed between said plug and the head of said plunger, substantially as described.

2. The casing a having ears a' , and provided

at one end with a hole and at its opposite end
with screw-threads, combined with a headed
plunger having its shank extended through
the hole at one end of the casing, a threaded
5 plug having an attached finger-piece, and a
spring interposed between the said plug and
plunger, to operate, substantially as de-
scribed.

In testimony whereof I have signed my
name to this specification in the presence of 10
two subscribing witnesses.

NATHANIEL C. MERRILL.

Witnesses:

MILFORD L. HUNTER,
J. M. STEVENSON.