

(No Model.)

M. H. GROSS.
DOOR CHECK AND BOLT.

No. 467,618.

Patented Jan. 26, 1892.

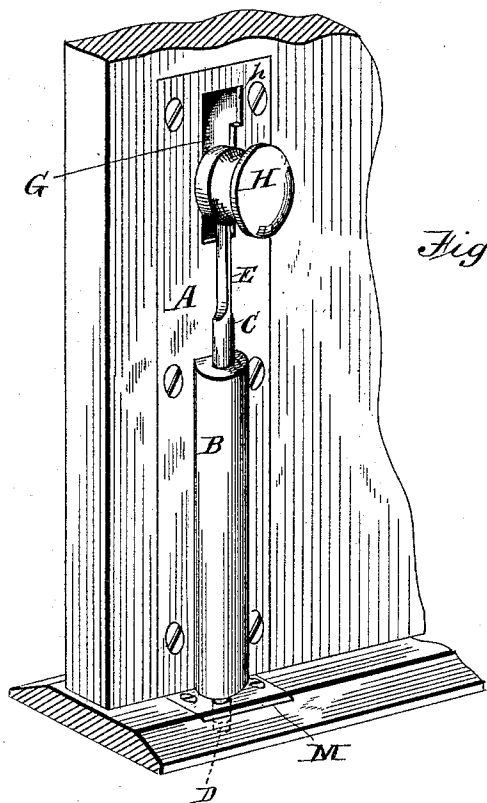


Fig. 1.

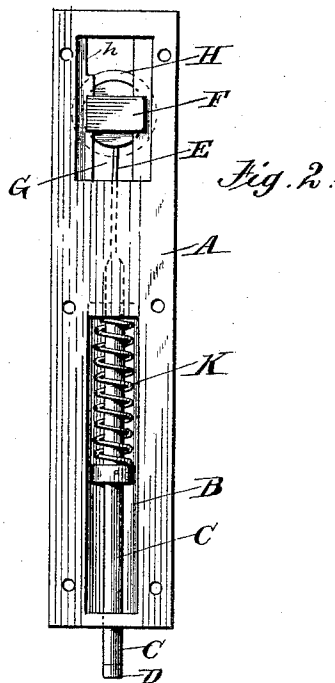


Fig. 2.

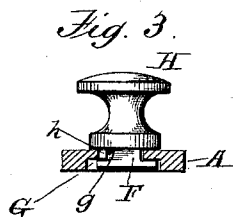


Fig. 3.

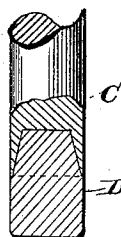


Fig. 4.

Witnesses

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MILTON H. GROSS, OF ABILENE, KANSAS.

DOOR CHECK AND BOLT.

SPECIFICATION forming part of Letters Patent No. 467,618, dated January 26, 1892.

Application filed June 11, 1891. Serial No. 395,918. (No model.)

To all whom it may concern:

Be it known that I, MILTON H. GROSS, a citizen of the United States, residing at Abilene, in the county of Dickinson and State of Kansas, have invented certain new and useful Improvements in Door-Checks; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to improvements in combined door checks and bolts; and the object is to provide a simple, cheap, and effective device to be attached to a door, which will operate to prevent slamming of the same and also serve to hold the door in a closed position.

With these ends in view my invention consists in the combination of a face-plate adapted to be attached to the face or edge of a door, a hollow shell or casing rigid with said face-plate, a rod or pin arranged within and extending through the said casing and provided at its lower end with an elastic pad or cushion, a locking-plate fitted in a suitable way or slot in the face-plate, and a spring-arm connecting the locking-plate with the rod or pin and adapted to force the former into a notch in the side of the way or slot in the face-plate.

My invention further consists in the peculiar construction and arrangement of parts, which will be hereinafter more fully pointed out and claimed.

To enable others to more readily understand my invention, I have illustrated the same in the accompanying drawings, in which—

Figure I is a perspective view of a portion of a door having my improved stop applied thereto. Fig. II is a rear elevation of the device. Fig. III is a transverse sectional view on the line *xx* of Fig. II, and Fig. IV is a detail view of the lower portion of the stop.

Like letters of reference denote corresponding parts in the figures of the drawings, referring to which—

A designates a face-plate adapted to be attached to the side or edge of a door in any desirable manner. Secured to or made integral with the exposed surface of the plate A is a hollow shell or casing B, preferably cylindrical, as shown, and through this casing extends a rod or pin C, which carries an elas-

tic pad or cushion D at its lower end. The upper end of the pin or rod C, which extends beyond the casing B, is made thin and elastic to form a spring-arm E, having its free end connected to a slide or plate F, which is fitted snugly in a longitudinal slot G in the face-plate A. This slide or plate F, which is of the shape in cross-section shown in Fig. III, is provided with a removable or detachable thumb-piece H, and on one side with a projecting lug *g*, adapted to take or be forced into a notch or recess *h*, formed in one side of the longitudinal slot G in the face-plate, by the spring-arm E when the plate F is moved opposite such recess.

Within the shell B and around the rod or pin C therein is arranged a coiled spring K, which tends to normally impel the plunger or rod against the floor.

The operation is as follows: The slide or plate F can be elevated by hand longitudinally in the slot G of the plate until it comes opposite the notch or recess *h*, when the spring-arm E acts to automatically force the plate F laterally and causes the lug or projection *g* thereon to take into said recess of the slotted plate. The rod or pin C can be depressed by its spring so that the elastic pad or cushion in the lower end thereof contacts closely with or bears against the surface of the floor or carpet and prevents the door from being closed or shut with undue violence. When the door is closed, the plate F is disengaged from the notch in the slot G by means of its thumb-piece H, and the coiled spring K forces the pin or rod C downwardly through a suitable keeper or plate M into a socket formed in the door-sill, and the door is held in such closed position until the plate F is moved to release the rod from the socket and cause the lug *g* to engage the notch or recess *h*.

If desired, the thumb-piece H, which, as before stated, is detachably connected to the plate F, can be changed to the rear of the plate, and by making a recess in the body of the door the device can be made to fit flush with the door.

I am aware that changes in the form and proportion of parts and details of construction can be made without departing from the spirit or sacrificing the advantages of my in-

vention, and I therefore reserve the right to make such changes and modifications as fairly fall within the scope of my invention.

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

10 In a combined door check and bolt, the combination of a face-plate provided with a longitudinal groove having a shoulder or offset formed in one side, a shell or casing attached to said face-plate, a rod or bolt fitted in said casing and having an elastic pad or cushion

at one end, a slide or plate fitted in the slot in the face-plate and provided on one side with a projecting stud or lug, and a spring- 15 arm connecting said plate with the other end of the bolt, as and for the purpose described.

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

MILTON H. GROSS.

Witnesses:

WILLIAM MURPHY,
C. S. CRAWFORD.