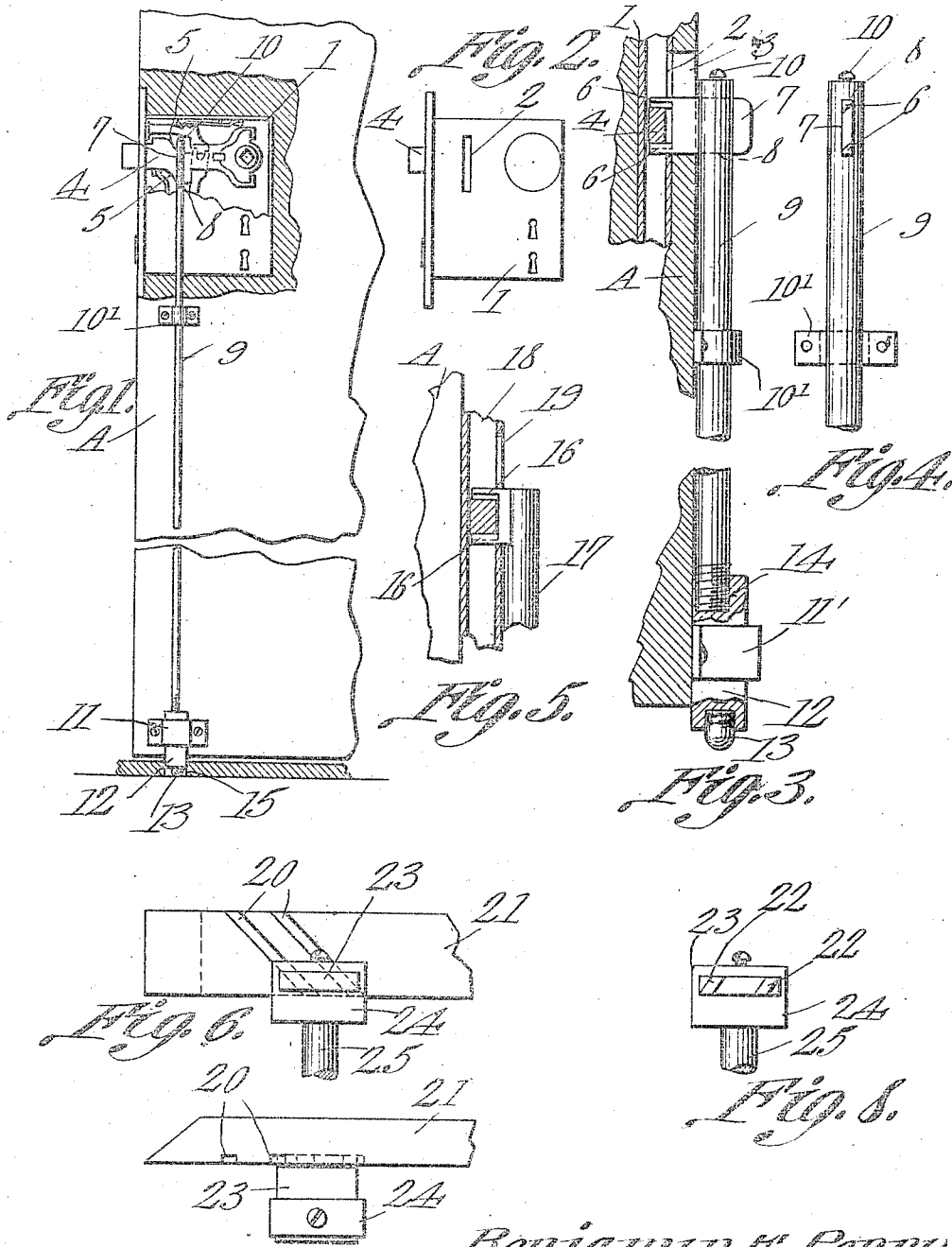


B. F. PERRY.
DOOR CHECK.
APPLICATION FILED JUNE 5, 1912.

1,049,529.

Patented Jan. 7, 1913.



Witnesses

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Fig. 7.

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UNITED STATES PATENT OFFICE.

BENJAMIN F. PERRY, OF GRAND JUNCTION, COLORADO.

DOOR-CHECK.

1,049,529.

Specification of Letters Patent.

Patented Jan. 7, 1913.

Application filed June 5, 1912. Serial No. 701,897.

To all whom it may concern:

Be it known that I, BENJAMIN F. PERRY, a citizen of the United States, residing at Grand Junction, in the county of Mesa and State of Colorado, have invented a new and useful Door-Check, of which the following is a specification.

This invention relates to door checks, its object being to provide a simple structure of this character adapted to automatically engage the floor when the door is partly or entirely open, said check being actuated by the latch of the door so that each time the knob is turned so as to shift the latch out of normal position the check is disengaged from the floor and the door can thus be moved freely.

Another object is to provide a door check which serves as a lock when the door is closed.

Another object is to provide a device of this character which can be used in connection with either mortise or rim locks, the said check being adjustable to doors of different sizes and to locks at different points upon the doors.

With the foregoing and other objects in view which will appear as the description proceeds, the invention resides in the combination and arrangement of parts and in the details of construction hereinafter more fully described and pointed out in the claim, it being understood that changes in the precise embodiment of the invention herein disclosed, can be made within the scope of what is claimed, without departing from the spirit of the invention.

In the accompanying drawings the preferred forms of the invention have been shown.

In said drawings:—Figure 1 is a view partly in side elevation and partly in section of a door having the present improvements combined therewith, only a portion of the door being shown. Fig. 2 is a side elevation of the door lock removed from position. Fig. 3 is an enlarged transverse section through a portion of the lock, the check being shown partly in section and partly in elevation. Fig. 4 is an elevation of the upper portion of the check attachment and showing that side thereof nearest the door lock. Fig. 5 is a transverse section through a portion of a rim lock and showing the upper portion of the check attachment. Fig.

6 is a side elevation of a portion of the door latch and of the upper portion of the attachment and showing a modified means for coupling the attachment and the latch. Fig. 7 is a plan view of the parts shown in Fig. 6. Fig. 8 is an inner elevation of the upper portion of the check attachment shown in Figs. 6 and 7.

Referring to the figures by characters of reference A designates a portion of a door which, in Figs. 1 and 3 is shown provided with a mortise lock 1 having a slot 2 in one side of its casing, said slot registering with another slot 3 formed in one side of the door A. The latch 4 of the lock is of the usual sliding type designed to be held normally projected by a suitable spring, not shown, and adapted to be retracted by rotating a knob, not shown. The latch 4 differs from the ordinary latch in that it is provided with parallel diagonally disposed upper and lower edge portions 5. These edge portions are adapted to be engaged by spaced teeth 6 the active faces of which are beveled, as shown particularly in Fig. 4, so as thus to ride easily along the edges 5. These teeth extend from one end of a plate 7 which is slidable within the slots 2 and 3 and extends beyond the slotted face of the door A. This projecting portion of the plate is fitted adjustably within a slot 8 extending through the upper end portion of a rod 9, there being a set screw 10 in the rod and engaging the plate 7 for holding said plate against movement relative to the rod.

The rod 9 extends downwardly along the door A and is adapted to reciprocate within guide brackets 10' and 11. The lower bracket 11 guides a foot 12 from the lower end of which projects a nipple 13 of rubber, leather or other soft material designed to engage the floor. A socket 14 is formed in the upper end of the foot 12 and the lower end of rod 9 is screwed thereinto. Thus it will be seen that it is possible to vary the distance between the nipple 13 and the upper end of the rod 9. As the latch 4 is normally projected beyond the lock casing 1 it will be apparent that the lower diagonal edge 5 of the latch will normally press downwardly on the lower tooth 6 and thus hold the nipple 13 pressed against the floor. As soon as the latch 4 is retracted, as by turning the knob provided therefor, the up-

per edge 5 will engage and elevate the upper tooth 6, thereby lifting the nipple out of contact with the floor.

By providing a socket 15 in the door sill, it will be seen that the foot 12 can be caused to project thereinto while the door is closed and thus act as a lock.

While the attachment can be used in connection with a mortise lock, it can also be used in connection with a rim lock as shown in Fig. 5. When thus used it is not necessary to provide an adjustable plate 7 as teeth 16, corresponding with the teeth 6 can be extended directly from the upper end of the rod 17 which is similar to rod 9. The casing of the rim lock has been shown at 18 in Fig. 5 and the tooth receiving slot has been indicated at 19.

Instead of combining the latch and the rod 9 or 17 in the manner described, parallel diagonal kerfs 20 may be formed in one side of the latch 21 as shown in Figs. 6, 7 and 8, these kerfs receiving teeth 22 projecting from a plate 23 which is adjust-

ably mounted within a head 24 at the upper end of a rod 25.

What is claimed is:—

The combination with a door and a lock secured thereto and including a slidable latch, of a member mounted to slide on the outer surface of the door, there being a slot within the door and opening into the lock casing; a floor engaging element adjustably connected to the slidable member; a projection adjustably and detachably connected to said member, and diagonally disposed means upon the latch for engaging the projection to elevate the element out of engagement with the floor when the latch is moved in one direction.

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

BENJAMIN F. PERRY.

Witnesses:

SELINA WILLSON,
ERNEST F. RILEY.