

A. KEHL.
Door-Check.

No. 197,863.

Patented Dec. 4, 1877.

Fig. 1.

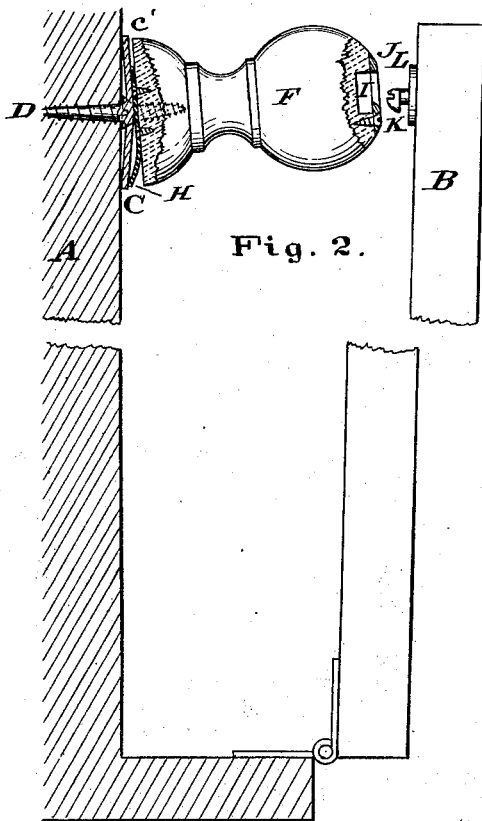
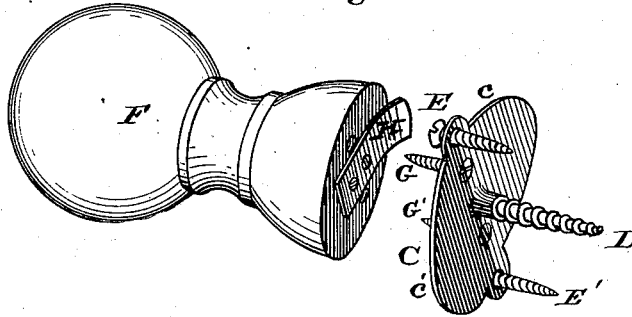


Fig. 2.

Fig. 4.

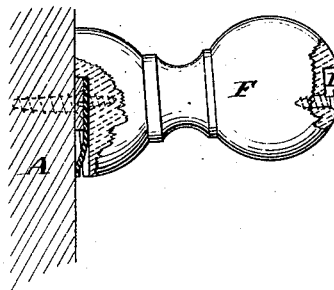
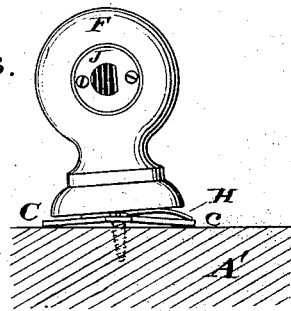


Fig. 3.



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ANTHONY KEHL, OF CONNERSVILLE, INDIANA.

IMPROVEMENT IN DOOR-CHECKS.

Specification forming part of Letters Patent No. **197,863**, dated December 4, 1877; application filed September 7, 1877.

To all whom it may concern:

Be it known that I, ANTHONY KEHL, of Connorsville, Fayette county, Indiana, have invented a new and useful Door Buffer and Catch, of which the following is a specification:

This device differs from those ordinarily used for limiting and cushioning the opening movement of a door, in being so attached, either to the wall or floor, as to be capable of a slight rocking motion, and in being so provided with a spring at the base of the knob, and a lip and recess at its crown, as to react with a catch and cushion on the door, to engage and hold the latter securely in the open position, without noise or jar, while permitting its ready disengagement by a slight motion of the operator's hand or foot, all as hereinafter more fully described and claimed.

In the accompanying drawings, Figure 1 is a rear end perspective view of a knob and base-plate embodying my improvements. Fig. 2 shows, in horizontal section, such a knob in position upon the wall, and a corresponding catch in position upon the door. Fig. 3 represents such a knob attached to the floor, and which, consequently, has its lip and recess on its side instead of on its crown. Fig. 4 illustrates a somewhat cheaper form of knob.

A may represent a portion of a wall, and A' a portion of a floor. B may represent part of a door or shutter. C is a circular base-plate, capable of being fastened to the wall or floor by means of a screw-shank, D, and of being still further secured by means of additional screws, E E'. The plate C is so bent as to present on its outer face two slightly-inclined planes, *c c'*, so as to form a low roof-like base for my knob F, to which the said base is attached by a pair of wood-screws, G G', which traverse orifices through the ridge or apex of the said roof-like base.

Attached to the under side of the knob is a spring, H, which, by pressing forcibly on one of the inclines *c* when the knob is screwed in place, operates to maintain the said knob in the slightly-canted position represented in Figs. 2, 3, and 4.

The crown of the knob, if the latter be attached to the wall, as in Figs. 2 and 3, or its side, if attached to the floor, as in Fig. 4, is recessed or excavated, as at I, which recess is partially closed by an escutcheon, J, for the engagement of a hook or catch, K, that projects from the door.

A washer, L, of rubber, felt, leather, or other elastic substance, surrounding the catch K at its junction with the door, discharges the functions of a cushion to prevent violent impact of the door with the knob.

In operation, the act of opening the door causes the catch K to strike the lip of the escutcheon, pushing the knob to one side until the head of the catch is admitted behind the lip, upon which the knob immediately retracts and locks the catch.

Disengagement of the knob is effected by slightly rocking it backward, so as to free the catch, and then releasing the door.

My invention is susceptible of various modifications. For example, a cheap form of knob may have a single narrow base in place of the roof-formed plate C, and a single screw or pin instead of the escutcheon. Such form of knob is shown in Fig. 4. The screw-shank D or the screws E E' may be dispensed with. The spring may be on the base instead of being attached to the knob, or it may be of the familiar spiral form, and be simply dropped into sockets or recesses in the base and plate, or either of them.

I claim as new and of my invention—

The door stop and catch consisting of the recessed and rocking knob F, secured to a gable-roof-formed or equivalent-shaped base, C, attached either to the floor or wall, in combination with the interposed metallic spring H, holding the knob in slightly-inclined position, escutcheon J, and catch K, substantially as set forth.

In testimony of which invention I hereunto set my hand.

ANTHONY KEHL.

Attest:

GEO. H. KNIGHT,
GEORGE H. KOLKER.